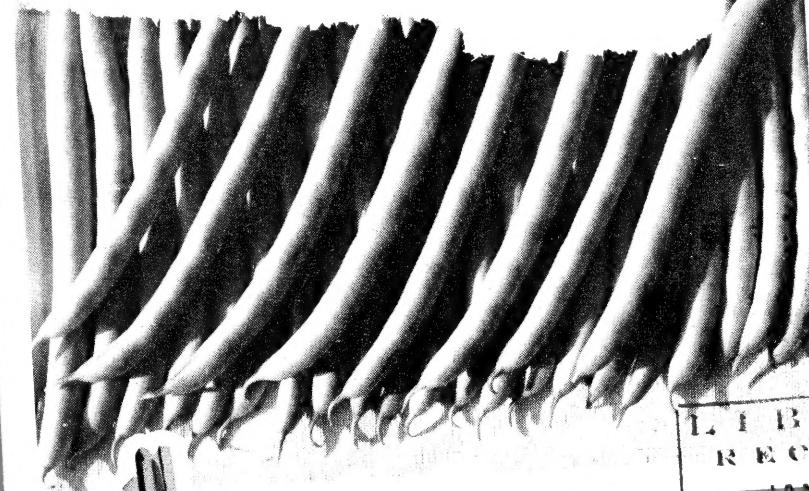


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GOLDEN SECURITY  
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RESISTANT ASGROW VALENTINE



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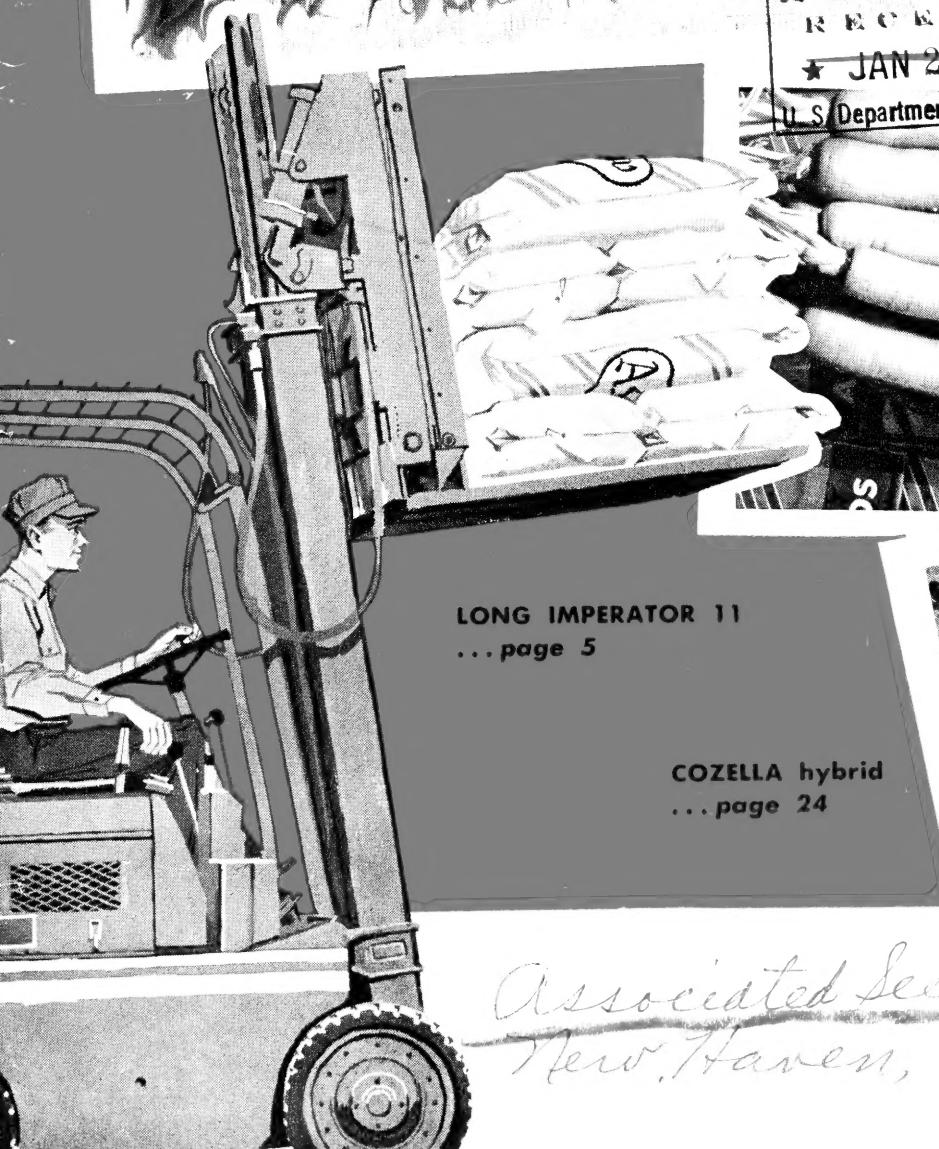
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**Asgrow**  
**COMMERCIAL GROWER'S**  
*Guide*



Associated Seed Growers, Inc.  
New Haven, Conn



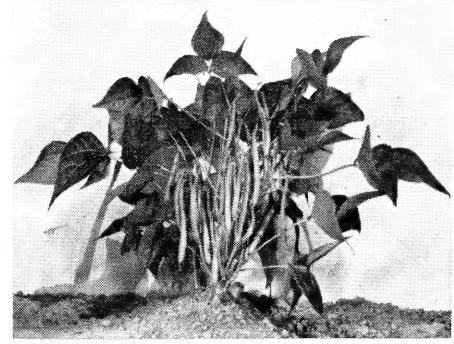
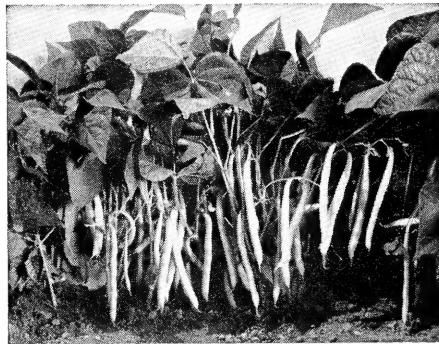


# BEANS

1959

Variety	Days	Color	Pods Shape	Size (in.)	Remarks
<b>BUSH</b>					
Asgrow Black Valentine .....			(See Resistant Asgrow Valentine)		
Bountiful .....	47	light green	flat	6 1/2 x 1/2	For early market and processing.
Cherokee (wax) .....	50	yellow wax	oval	6 1/2 x 1/8	Wax-podded Valentine. See below.
Contender*‡ .....	48	medium green	oval, curved	7 1/4 x 1/2	Vigorous; high yielding.
Dwarf Horticultural, Taylor's strain .....	62	red splashed	thick-flat	5 x 5/8	For early shell beans.
Kinghorn (wax) .....	53	medium yellow	round	5 3/4 x 1/8	White-seeded wax.
Resistant Asgrow Valentine* .....	50	medium green	oval	6 3/4 x 3/8	See below.
Resistant Tendergreen* .....	52	medium green	round	6 x 3/8	For market and processing.
Seminole*†‡ .....	53	medium green	round	6 1/4 x 3/8	Good yields; beany flavor.
Tendergreen (Asgrow Stringless Green Pod) .....	50	medium green	round	5 3/4 x 3/8	The standard for quality.
Tendergreen F.S.* .....	52	medium green	round	6 x 3/8	Improved Tendergreen type.
Tenderlong 15*‡ .....	50	medium green	round	6 3/4 x 3/8	Mosaic-resistant Tendergreen type.
Topcrop* .....	48	medium green	round	6 x 3/8	Heavy yelder; some curved pods.
Topmost* .....	48	medium green	round	6 x 3/8	White-seeded; heavy yielding.
Wade*‡ .....	53	glossy dark green	round	5 3/4 x 3/8	Pods relatively hairless.
White Seeded Tendergreen .....	50	medium green	round	5 x 3/8	Suited for shipping and processing.
<b>POLE</b>					
Florigreen*‡ .....	62	medium green	thick-flat	8 1/2 x 1/2	White-seeded. Productive.
Kentucky 191 (U.S. No. 4)† .....	65	dark green	smooth, oval	8 x 1/2	See below.
McCaslan .....	65	medium green	thick-flat	7 1/2 x 1/8	See below.
Romano .....	66	green, splashed	thick-flat	6 x 3/4	Stringless; also for shelled beans.
Stringless Blue Lake*‡ .....	57	dark green	round	6 3/4 x 3/8	Good yields, fancy quality.

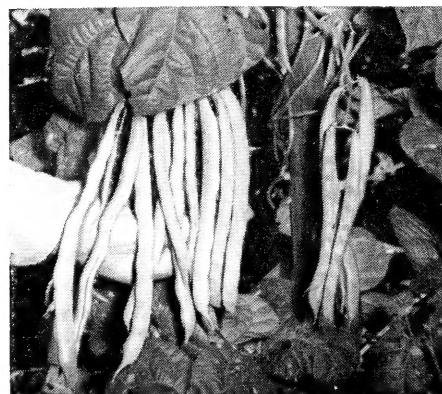
\* Resistant to common bean mosaic. ‡ Resistant to powdery mildew. † Rust-resistant.



**RESISTANT ASGROW VALENTINE.** Similar in every way to standard Asgrow Black Valentine but resistant to common bean mosaic and the N.Y. 15 strain. Plants vigorous, erect, heavy yielding. Pods oval, medium green, nearly straight.

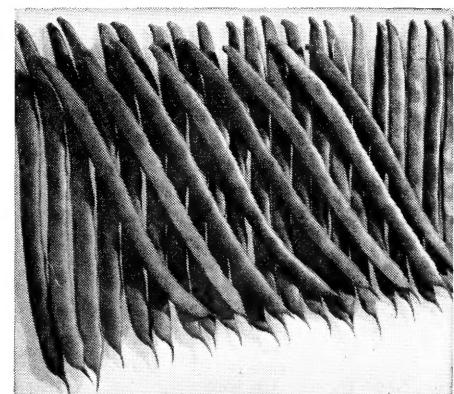
**CHEROKEE.** The leading oval-podded wax variety, resembling Asgrow Black Valentine, except for bright yellow pods. Plants large, erect, producing heavy yields of nearly straight, oval pods. Holds appearance well after picking.

**WADE.** A general purpose, round-podded variety, producing heavy yields of high quality beans over a long period. Plants medium large, upright, holding pods well off the ground. Pods round, straight, and glossy dark green. Seeds inherently of lower germination than some other varieties.



**KENTUCKY 191.** The leading pole bean variety for local market and shipping. Plants vigorous, productive, resistant to some strains of rust. Pods long, oval, relatively smooth; dark green; very meaty, tender, free of strings and fiber at prime picking stage.

**McCASLAN.** The Asgrow strain of this standard variety has been carefully selected for desirable plant type and productivity. Pods medium green, slightly curved, thick-flat, stringless at prime picking stage, meaty, of excellent eating quality.



Kentucky 191

McCaslan

## LIMA BEANS

Variety	Days	Pod Size (inches)	Beans			Remarks
			Size	Shape	Color	
<b>BUSH VARIETIES</b>						
Clark's Bush .....	67	2 3/4 x 3/4	small	flat	light green	Green-seeded baby Lima.
Fordhook 242 .....	75	3 1/2 x 1	large	thick	medium green	See below.
Henderson's Bush .....	65	2 3/4 x 3/4	small	flat	light green	Standard baby Lima or butter bean.
Jackson Wonder .....	65	3 x 3/4	small	flat	green, becoming mottled	Drought resistant, productive.
<b>POLE VARIETIES</b>						
Florida Butter Speckled .....	78	3 1/4 x 7/8	small	flat	green, later buff and red	Vigorous, prolific. Pods borne in clusters.
Sieva (Carolina) .....	77	3 x 3/4	small	flat	light green	Earliest pole Lima. Popular in the South.

(Asgrow)

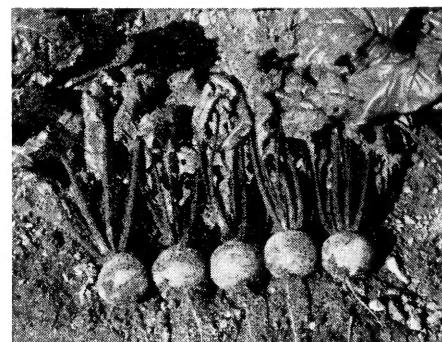
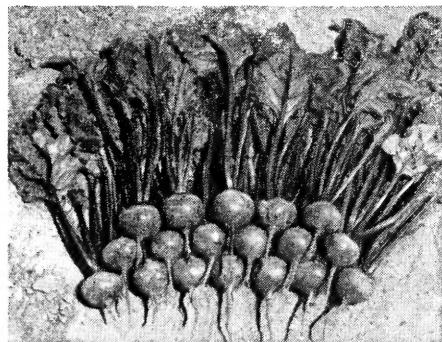
**FORDHOOK 242.** The most widely used large-seeded variety for market. Plants large, productive, and notably better than other varieties in its class for setting pods under adverse conditions of hot, dry weather. Pods thick-walled slightly curved; beans large, thick-oval, light green, of excellent flavor.

(Asgrow)



## BEET

Variety	Days	Root Shape	Tops		Remarks
			Length	Color	
Asgrow Wonder .....	57	semi-globe	tall	green	See below.
Detroit Dark Red, Medium Top .....	68	full globe	medium	green-red	See below.
Detroit Dark Red, Short Top .....	68	globe	short	green-red	See below.
Green Top Bunching .....	56	flat globe	medium	green	Holds green tops well.



**ASGROW WONDER.** Unsurpassed for earliness, uniformity, and depth of interior color. The tops are erect; uniform in size and dark green color. The roots are round when young, developing into semi-globe shape, deep red, smooth, with small tap root. The flesh is deep red, tender, and of excellent quality. Even on compact soils Asgrow Wonder will produce a good crop.

**DETROIT DARK RED, Medium Top.** A dual purpose strain for fresh market and processing, producing high quality roots over a wide maturity range. Tops somewhat larger than Short Top strain, retaining medium green color well. Roots globe shaped, retaining uniform deep red interior color through the larger sizes.

**DETROIT DARK RED, SHORT TOP.** A short-top strain of this standard variety, widely used by market gardeners and produce growers for late summer and fall. Of particular value in certain areas because of its resistance to downy mildew. The tops are relatively short, dark green, tinged with red. The roots are globular, smooth, with small tap roots and relatively indistinct zoning.

## SWISS CHARD

**FORDHOOK GIANT.** 55 days. Tall and sturdy. Leaves broad, heavily crumpled, dark green; stems broad, thick, white. The leading variety.

# BROCCOLI

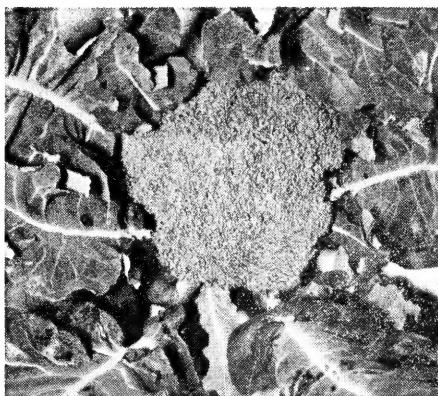
**ABOUT VARIETIES.** Among the characteristics which distinguish the varieties of broccoli, probably the most important is their response to time of planting. Maturity also varies greatly among varieties, but this is closely related to the season of planting and to the time of growth required by each variety to realize its highest yield and quality.

In general, the varieties of broccoli fall into three groups which we term Early, Medium, and Late in the descriptions given

below. Those varieties listed as Early must be planted early in the season to give satisfactory quality. If seeded for fall harvest they will flower before making marketable heads. Varieties marked Medium are adapted to the widest range of planting dates, but even in this group planting too early in the summer may result in premature flowering. This is particularly true of Waltham 29. The Late types are adapted only to areas, chiefly California, where broccoli can be grown throughout the winter and are usually planted in the fall for spring harvesting.

Variety	Class*	Season	Plant Type	Head Type	Remarks
Early-DeCicco .....	Early	spring-summer-early fall	medium compact	medium large compact	See below.
K & V .....	Second early	spring-summer	tall, upright	large, divided	For market and freezing.
Late .....	Late	winter-spring	large	large, compact	For the Far West only.
Medium 90 .....	Medium	fall-winter	tall, branching	large	See below.
Medium Late .....	Late	winter-spring	medium compact	large	For the Far West only.
Waltham 29 .....	Medium	late-summer, fall	low, compact	medium large	See below.

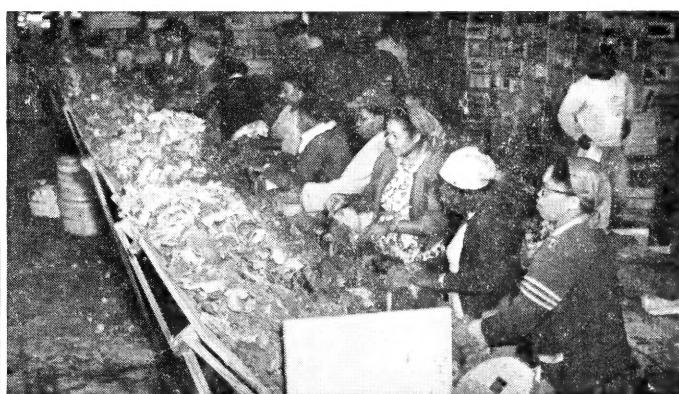
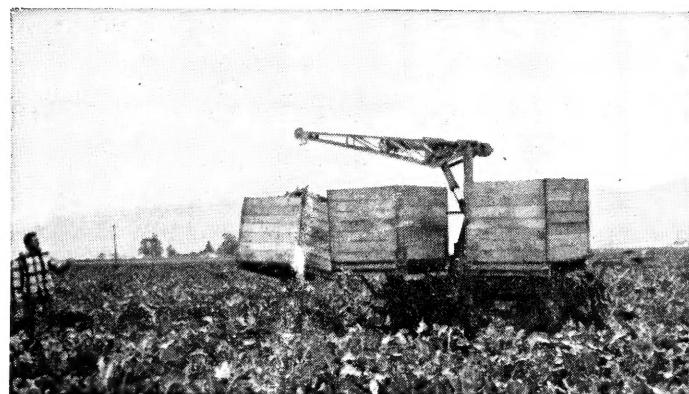
\* See "About Varieties," above.



**EARLY-DE CICCO.** Replaces our Early Green Sprouting, which was distinctly earlier than similarly named varieties from other sources. Adapted for harvesting in spring, summer, and early fall in the South and East. Plants of medium size, fairly compact. Heads of medium size, compact, followed by good yields of side shoots.

**MEDIUM 90.** A distinct Asgrow strain, reaching maturity about a week earlier and completing harvest about two weeks earlier than other strains of Medium. Heads large, umbrella-shaped, compact, with small beads, well protected from frost and shedding water well, for minimum slime loss.

**WALTHAM 29.** A recent development, in the Medium group, introduced by the Waltham, Mass., Field Station. The plants are dwarf and very compact, producing main heads of uniform, blue-green color, followed by a heavy crop of large side shoots. Waltham 29 is widely adapted for fall harvesting, but is not suitable for early or mid-summer use.



*Mechanization and mass production in broccoli. Harvesting in California; packing in eastern Virginia.*

## BROCCOLI RAB

**ANNUAL (FINA 2).** A quick growing variety, planted in spring or summer for summer and early fall harvest. Plants of medium size and medium green color, producing good crops of leaves and flower heads.

**RAPPONE.** A leading variety used for spring planting and harvest in late summer and fall. Plants large, with heavy leaves of dark green color. Slow bolting.

## BRUSSELS SPROUTS

**LONG ISLAND IMPROVED (CATSKILL).** The leading variety but not adapted for coastal areas of California. Plants compact, about 2 ft. tall, producing heavy sets of firm sprouts, about 1½" in diameter, over a long period.

## CABBAGE

Variety	Days†	Season	Plant Type	Head Type	Diameter (inches)	Weight (pounds)
Badger Ball Head*	100	fall	medium; short stem	near round, solid	6½	5
Badger Market*	70	spring-summer	small, very short stem	round, solid	5½-6	2½-3
Bonanza	75	spring-summer-fall	small, very short stem	round, very firm	6½	4
Charleston Wakefield*	74	spring	medium	conical, 7-8" high	6½	4
Copenhagen Market, No. 86	69	spring-summer	short stem	round	6½	3½
Danish Ball Head (Hollander)	103	fall	large	deep round, solid	7	6½
Early Glory	74	spring-summer	medium	nearly round, solid	7	5
Early Round Dutch	71	spring-summer-fall	small, short stem	round, firm	6½	4
Globe*	80	summer-fall	large	round, solid	8	6
Golden Acre	64	spring	dwarf	round, small	6	3
Greenback*	74	spring-summer-fall	small, short stem	round, firm	7½	5½
Mammoth Red Rock	100	fall	large	flattened globe	8-9	7
Marion Market*	79	summer	large	round, firm	7	5½
Oakview Ball Head	105	fall	medium; tall stem	deep round, solid	6½	5
Premium Late Flat Dutch	100	fall	large	flat, solid	12	12
Red Acre	74	spring-summer-fall	small, compact	round, hard	6½	5
Resistant Detroit*	68	spring	small	small, round	6	3½
Savoy Perfection Drumhead	90	fall	large	heavily crumpled firm, flat-globe	8	6
Wisconsin Hollander No. 8*	110	fall	large	round	7½	7

\* Yellows resistant. † From transplanting.



**BADGER MARKET.** A second-early, yellows-resistant variety producing a small, solid head. Outstanding for its trim, uniform appearance and lively green head color. Yields well and should be tried in areas where Copenhagen Market produces heads too large for market preference.



**COPENHAGEN MARKET, No. 86.** Widely grown in short season areas. The short-stemmed plant produces a large, solid, round head of superior quality, with adequate leaves. The uniform attractiveness of this ASGROW strain is maintained by careful selection and progeny evaluation.

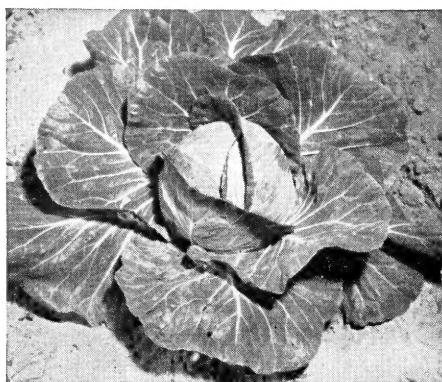


**EARLY GLORY.** A leading variety for late spring and fall crops in the South. Plants low growing, and well protected from frost by large, thick, somewhat wavy wrapper leaves. Produces solid heads of excellent shipping and market quality.



Continued on next page

## CABBAGE continued



**EARLY ROUND DUTCH.** The leading variety for over-wintered spring crop in the Southeast because of its cold resistance and non-bolting character. Also used for early fall crops. Plants compact, with short stems, and few but large wrapper leaves; adapted for close planting.



**GOLDEN ACRE.** The ASGROW strain of this popular variety has been widely acclaimed for its uniformity and productivity. A very early Copenhagen type for spring production. The plants are small, with few outer leaves. The heads are round, solid, and relatively small.



**MARION MARKET.** A very uniform ASGROW selection of this standard yellows-resistant variety for summer harvest. Resembles Copenhagen Market, but somewhat larger, heavier, and later in maturity. Plants of medium size. Heads round, firm.

## CHINESE CABBAGE

**MICHIHLI.** 75 days. Head 3"-4" thick, about 18" tall and cylindrical, tapered at tip, solid, well blanched, sweet and crisp.

**WONG BOK.** 85 days. A short, stout, oval variety, about 7" in diameter, 9" high; compact and well blanched.

## CARROT

Varieties	Days	Length	Width	Shape	Tops	Remarks
Chantenay, Red Core .....	72	5	2	tapered stump	medium	Indistinctly cored.
Chanticleer .....	75	6½	2	tapering, blunt	strong	See below.
Danvers, Red Core .....	75	7	1¾	tapered, blunt	strong	A long strain, fine quality, uniform.
Gold Spike .....	87	10	1	tapering	short	Resembles Long Imperator.
Long Imperator .....	77	9	1½	tapering	medium	See below.
Long Imperator 11 .....	77	10	1	tapering	medium	See below.
Nancy .....	70	6	1½	slight taper, blunt	short, strong	High table quality.
Nantes .....	70	6	1¼	blunt cylinder	small	Fine texture; crisp, sweet.



**CHANTICLEER.** Developed by ASGROW, Chanticleer is an improvement over most strains of Long Chantenay type. The dark green tops are strong and vigorous; the roots are very uniform, longer than Red Core Chantenay, tapering to a blunt tip; the flesh is deep colored with indistinct core. A very attractive variety for local market and useful for processing.

**LONG IMPERATOR.** The leading variety for bunching and pre-packaging in the principal carrot-growing regions of the country and now also being used extensively in the Northeast and Middle Atlantic States, where suitable soils are available.



**LONG IMPERATOR 11.** A new ASGROW selection from the original ASGROW introduction. Produces exceptionally uniform, attractive, long, slender roots of excellent quality. Good exterior color, with good top attachment at crown. Commercial trials indicate Long Imperator 11 will replace the original in many areas.



Long Imperator 11

## CAULIFLOWER

Variety	Days*	Head Size (inches)	Plant Size	Heads	Remarks
Snowball A (Super Snowball) . . . . .	55	7	medium	medium-deep	Early, uniform maturity. Requires prompt harvesting.
Snowball X . . . . .	60	7½	large	large, smooth, very deep and solid	Standard main crop; widely adapted.
Snowball Y . . . . .	65	7½	large	large, smooth, heavy	Like "X" but later; reliable.

\* From transplanting.

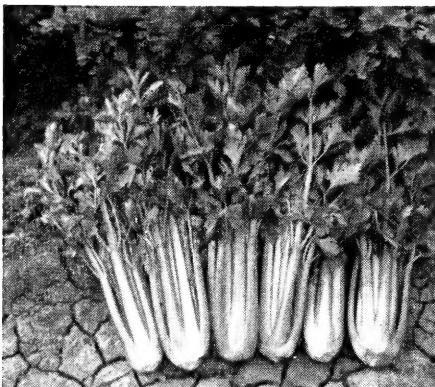
## CELERIAC

**LARGE SMOOTH PRAGUE.** 110 days. Turnip rooted celery. Plant dark green, with hollow stalks. Globe-shaped roots, 2"-3" diameter.

## CELERY

Variety	Plant Color	Days*	Plant Height (inches)	Stalk Length (inches)	Remarks
Golden Plume (Wonderful) . . . . .	golden	83	18-25	8	A standard golden variety.
Pascal 259-19 . . . . .	green	110	25-27	9-10	Vigorous, uniform, high-quality.
Slow Bolting Green No. 12 . . . . .	green	110	26-28	10-11	Midseason Pascal type.
Summer Pascal, Waltham strain . . . . .	green	120	20-25	8-11	See below.
Tall Utah 10B . . . . .	green	120	22-26	9-11	Excellent quality for main crop.
Utah 16-11 . . . . .	green	120	23-27	9-11	See below.
Utah 52-70 . . . . .	green	125	22-26	9-11	See below.

\* From time of setting plants.



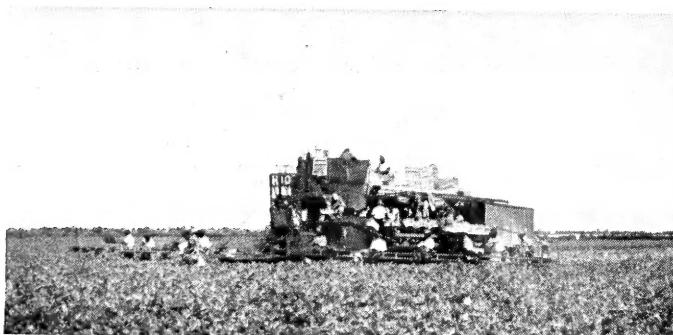
**UTAH 52-70.** A tall strain of Utah type for mid- and late-season use; somewhat subject to bolting when used for early crops. Foliage attractive dark green; stalks thick, relatively smooth, glossy; very good heart development. Highly resistant to "brown check."



**SUMMER PASCAL, WALTHAM STRAIN.** An improved strain of Summer Pascal, the most popular green variety for the East and South. Plants tall, full-hearted; more upright in growth than the original. Stalks thick, rounded, smooth, and longer than the older strain. The color is an attractive dark green. Adapted to both upland and muck soils.



**UTAH 16-11.** A recent ASGROW development, replacing Utah 16 and extensively used for fall and winter harvest on the Pacific Coast. Plants tall, with good heart development. Foliage dark green. Stalks rounded, thick, and of good length. Quality holds well after reaching cutting stage. Has shown considerable tolerance to frost when mature.



Field packing celery. (left) Near Belle Glade, Florida and (right) near Salinas, California.

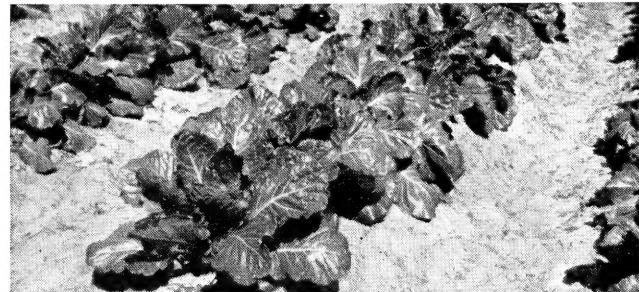
## CHICORY

**CATALOGNA (RADICCHETTA).** Used for greens. The dark green leaves are deeply notched; about 12 in. long and 3 in. wide, with light green petioles. Young seed stalks also used like asparagus.

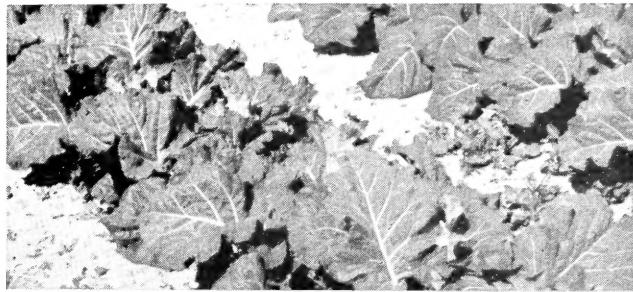
## COLLARD

Varieties	Days*	Plant Height	Plant Type	Leaf Type	Remarks
Georgia (Southern) . . . . .	75	2-3 ft.	erect, spreading	wavy	Hardy, tolerant of heat and cold weather.
Georgia 912 . . . . .	75	2-2½ ft.	compact	broad, savoyed	Uniform strain of Georgia type.
Green Glaze . . . . .	75	1½-2 ft.	compact	savoyed, glossy	See below.
Morris Heading . . . . .	80	1½-2 ft.	loose head	savoyed	Very slow bolting.
Vates . . . . .	75	1½-2 ft.	low-growing	smooth	See below.

\* From time of setting plants.



**GREEN GLAZE.** Distinctive for its glossy bright green leaves, on very short stems, forming a relatively compact plant. Very attractive. Quality holds well through cold weather; less subject to leaf-miner injury than some other varieties.



**VATES.** Plants very compact, producing heavy yields of large, thick, dark green leaves with short stems. Leaves hold color well in cold weather. Very productive and relatively slow to bolt; less subject to wind damage because of low-growing habit.

## CORN

Varieties	Days	Plant Height inches	Ear Height inches	Ear Length inches	Ear Shape	Row Count	Wilt Resistance	Remarks
<b>Yellow Hybrids</b>								
Asgrow Golden 22 . . . . .	79	68	20	6-8	slight taper	12-14	excellent	See next page.
Asgrow Golden 25 . . . . .	83	66	20	7-9	thick	12-14	excellent	Very sweet flavor.
Asgrow Golden 60 . . . . .	87	85	22	8-10	thick	14-16	excellent	See next page.
Calumet . . . . .	86	84	24	8-10	slender	12-14	excellent	See next page.
Carmelcross . . . . .	79	66	20	6-8	tapered	12-14	fair	Heavy yielder.
Deep Gold . . . . .	87	78	24	7½-8½	thick taper	18-22	fair	Deep, tender kernels.
Golden Beauty . . . . .	75	64	14	6-8	thick	12-14	good	Good vigor, yields.
Golden Cross Bantam . . . . .	86	74	20	7-9	cylinder	12-14	fair	Fine quality.
Golden Cross 51-T . . . . .	86	74	20	7-9	cylinder	12-14	fair	See next page.
Golden Hybrid 2057 . . . . .	88	96	34	9-10	cylinder	16-18	fair	For large, heavy ears.
Golden Security . . . . .	86	90	30	8-8½	tapered tip	14-16	excellent	See next page.
Ioana . . . . .	87	78	22	7-9	cylinder	12-14	excellent	Heat and drought resistant.
Iochief . . . . .	87	84	30	7-9	tapered	14-16	excellent	Heavy cropper.
Marcross C13.6 . . . . .	76	64	16	5-7	blocky	10-12	fair	Early market.
Sixtypak . . . . .	88	82	28	7-9	cylinder	12-16	excellent	See next page.
Spancross . . . . .	70	60	12	5-6	cylinder	10-12	fair	First-early.
Victory Golden . . . . .	88	90	30	8-8½	tapered tip	14-18	fair	See next page.
<b>White Hybrids</b>								
Asgrow Cogent No. 132 . . . . .	98	88	33	7-9	tapered tip	irregular	excellent	Replaces Country Gentleman.
Peoria . . . . .	94	108	48	8-9	cylinder	14-16	excellent	See next page.
<b>For Roasting Ears</b>								
Asgrow 101W . . . . .	100	120	60	10-12	tapered tip	12-14	no	See next page.
Trucker's Favorite . . . . .	77	90	30	6-8	cylinder	10-16	no	White; roasting ears.

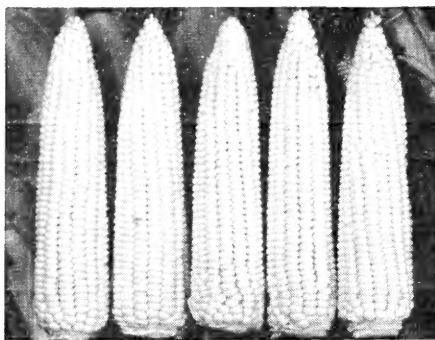


Asgrow Golden 22, popular in the Midwest and along the Atlantic Seaboard.

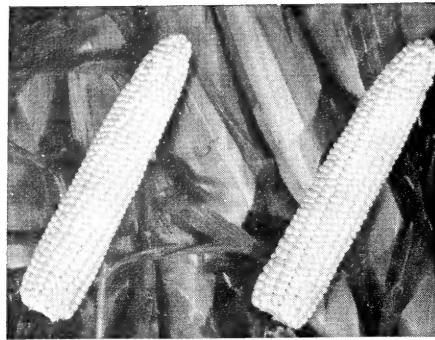


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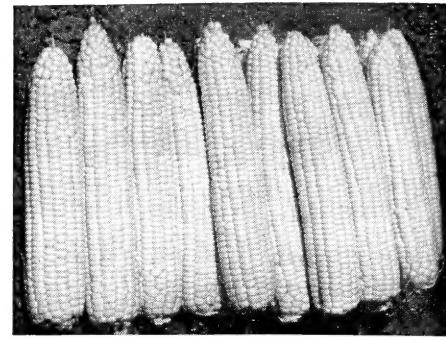
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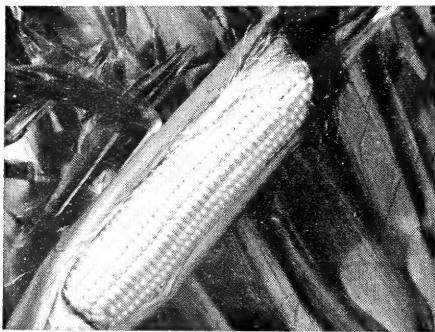
**ASGROW GOLDEN 22.** A new ASGROW hybrid in Carmelcross season. Plants taller and more vigorous than Carmelcross, with ears borne higher on the stalk; almost suckerless and highly resistant to wilt. Ears slightly longer and thicker than Carmelcross; slightly tapered, mostly 12 and 14 rows, well filled to the tip. Kernels of medium width and depth and of mid-season quality.



**ASGROW GOLDEN 60.** A vigorous, high-yielding mid-season hybrid, producing a large, thick, slightly tapered ear. The medium golden kernels are quite narrow and deep, giving the ears excellent appearance. The flavor and texture are very good. Asgrow Golden 60 has excellent resistance to Stewart's (bacterial) wilt, to smut, and to heat and drought and has shown considerable tolerance to Northern leaf blight.



**CALUMET.** An exceptionally attractive ASGROW hybrid, accepted in all parts of the country. Yields a heavy crop of large but trim ears under adverse conditions of heat and drought. Excellent resistance to wilt. Ears long, slender well filled to the tip and highly resistant to ear worms. Kernels light yellow, deep, medium wide and of good quality. Very uniform in maturity.



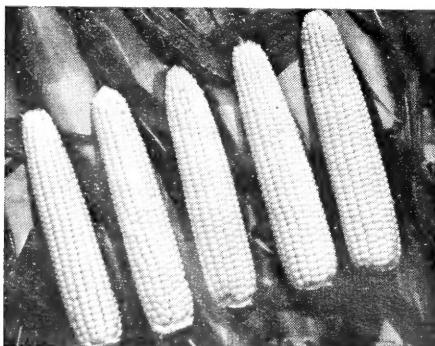
**GOLDEN CROSS 51-T.** An improved version of Golden Cross Bantam for the Pacific Coast and interior valleys of California. Plants taller, more vigorous. Ears slightly larger, with better tip fill. Kernels similar in appearance and eating quality.



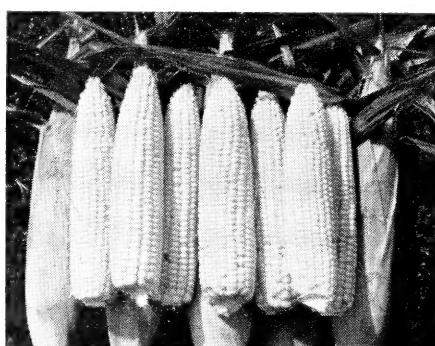
**GOLDEN SECURITY.** An exceptionally productive, largely double-eared hybrid for main crop. Widely accepted as the standard for yield and market quality. Plants vigorous, with excellent resistance to wilt. Ears attractive, with long, tight husks giving excellent protection against worms.



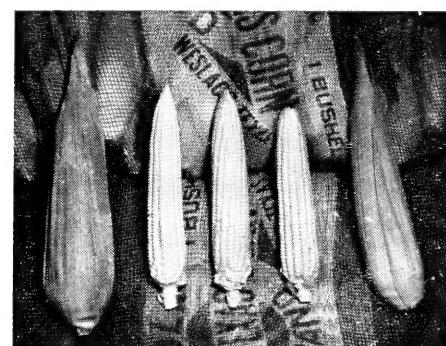
**PEORIA.** White. A high quality, late hybrid developed by ASGROW. The plants are very tall and vigorous, almost suckerless, highly resistant to wilt. The large ears, borne high on the stalk, are long and cylindrical and show consistently low earworm damage. A very heavy yielder, with ears holding unusually long at prime picking stage.



**SIXTPAK.** A heavy yielding ASGROW hybrid for shipping and local market, averaging nearly two ears per plant and packing 5 dozen to the crate. Plants vigorous, dark green, highly resistant to wilt, leaf blight, drought; tolerant of smut. Ears uniform; with attractive husks and excellent tip fill. Superior eating quality.



**VICTORY GOLDEN.** A main crop hybrid for roadside stand and local market use, where quality, as well as yield, may be an important factor. Plants average nearly two marketable ears, well protected from worms. Kernels narrow and deep; of superior tenderness and flavor, holding well after reaching maturity.



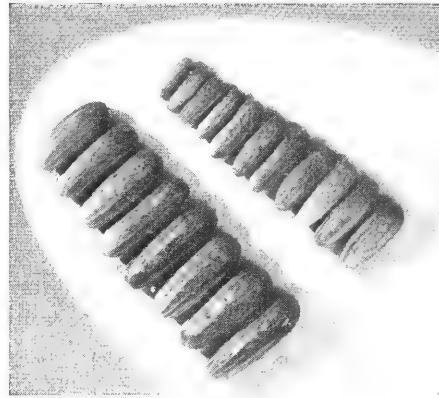
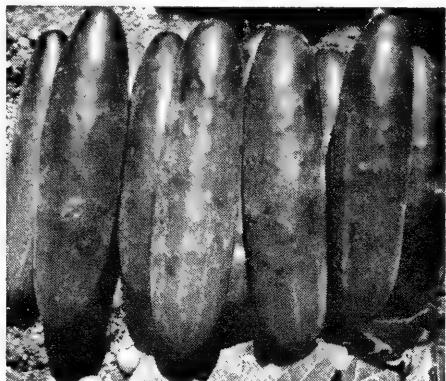
**ASGROW 101W.** An unusually heavy yielding white hybrid field corn, excellent for roasting ears at milk stage; particularly well adapted for southern Texas. Resistant to drought, lodging, stalk breakage, earworms. Figures are for South Texas and will vary in northern areas.

# CUCUMBER

Varieties	Season	Spine Color	Shape	Length (inches)	Diameter (inches)	Color	Remarks
<b>SLICING VARIETIES</b>							
Ashley†	early	white	tapered at ends	7½	2	very dark.	See below.
Marketer	medium	white	tapered at ends	7½	2	very dark	See below.
Ohio MR 200	medium	white	blocky; tapered stem	7½	2	dark green	See below.
Palomar†	early	white	tapered at ends	8	2	very dark green	Particularly for the South.
Stono†	early	white	tapered at ends	7½	2	medium dark	See below.
<b>PICKLING VARIETIES</b>							
Model		white	blocky	6*	2½*	dark green	See below.
National Association Pickling		black	blocky, slight taper	6*	2½*	medium green	Popular; good quality.
Ohio MR 17		black	blocky, slight taper	6*	2½*	medium green	See below.
Producer		white	tapered	5	2½	light green	Excellent for local market.
Stays Green		white	blocky, slight taper	7	2½	dark green	For dills and early slicers.

† Downy mildew resistant.

\*At full maturity.



**ASHLEY.** A recent introduction of major importance from the Clemson Station, Charleston, S.C. Widely adapted and heavy yielding, resembling Marketer in fruit type, but earlier, with somewhat less vigorous vine growth, and high resistance to downy mildew. Holds attractive shape and color well at marketable stage.

**MARKETER.** Bred and introduced by AS-GROW. The leading market variety, with vigorous vines producing heavily over a long season. Fruits trim, slightly tapered, very uniform, deep green well down to the blossom end; hold well after picking and can be left in the field for another picking without ballooning. The AS-GROW strain is carefully maintained by regular selection.

**MODEL.** An important pickling variety developed by ASGROW. The fruits are well proportioned, with blunt ends. In contrast to most pickling varieties, Model fruits have white spines and a darker green skin, and hold their color well in shipping, at the roadside stand, or on markets.

**OHIO MR 200.** A new mosaic-tolerant variety from the Ohio A.E.S. producing fruits slightly larger than Marketer, but somewhat ridged, and heavier at blossom end. Vines productive, outyielding Marketer under mosaic conditions. Worthy of trial where mosaic is apt to be a problem. Seed supply limited.

**OHIO MR 17.** A black-spined pickling variety, highly resistant to cucumber mosaic. The fruits are somewhat longer than National Association and darker colored. Vines vigorous and productive. Of particular value in areas where cucumber mosaic is the principal disease.



ASGROW VIGORPAK cucumber seed has given outstanding performance from New Jersey (above) to the Pacific Northwest.



The use of machinery in harvesting, shown above in a California cucumber crop, is increasing rapidly.

## EGG PLANT

Variety	Days*	Height	Fruit Color	Fruit Shape	Remarks
Black Beauty .....	80	24-30	dark purple	oval globe	For early market.
Florida High Bush .....	85	30-36	dark purple	long, tapering	See below.
Florida Market (Cook's strain)	80	30-36	dark purple	long oval	See below.
Fort Myers Market .....	83	30-36	dark purple	long oval	High yields; large, fancy fruits.
Long Purple .....	75	24-30	dark purple	long, slim	Early and prolific.
New Hampshire Hybrid .....	70	18	purple	oval	For short season areas.

\*From time of transplanting.



Florida High Bush

**FLORIDA HIGH BUSH.** A widely adapted, productive variety. The plants are erect, with fruit borne off the ground. The fruits are of good length, tapering towards the stem end, dark purple in color. When properly grown, Florida High Bush does well as far north as southern New England.

**FLORIDA MARKET (Cook's strain).** Phomopsis resistant. Plants vigorous, sturdy, bearing fruits well off the ground; relatively early in maturity and heavy yielding. Fruits attractive cylinder in shape, growing to large size.



Florida Market

## ENDIVE

Variety	Days	Plant Size (inches)	Leaf Type	Midrib Color	Remarks
Full Heart (Florida Deep Heart) .....	71	12-15	broad, crumpled	white	See below.
Pancalier .....	76	12-15	curled, deeply cut	rose	Blanches well.
Ruffec .....	76	16-18	curled, deeply cut	pale green	Full center blanches well.



Full Heart

**FULL HEART.** A broad-leaved variety often called Escarole. The plants are spreading in growth, producing, when closely planted, a dense mass of thick, slightly crumpled leaves of medium green color, with nearly white midribs and a well-blanching heart. The ASGROW strain is noted for its uniformity and is widely used by market gardeners and produce growers.

**RUFFEC.** Leaves deeply cut and curled; midribs pale green, fleshy, and tender. The densely massed center blanches readily into a creamy white.



Ruffec



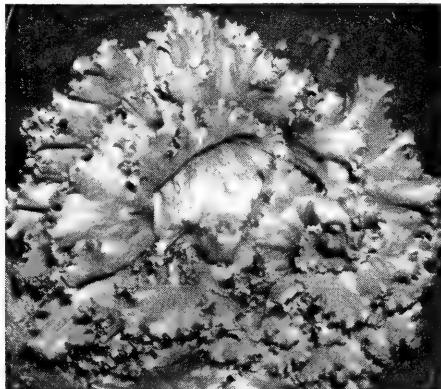
## KALE

Varieties	Days	Height	Leaf Color	Leaf Type	Remarks
Dwarf Green Scotch .....	55	14	deep green	finely curled plume	Large, uniform.
Dwarf Siberian (Sprouts) .....	65	14	deep blue-green	large, coarse, frilled	Hardy, vigorous spreading.
Vates .....	55	14	deep blue-green	tightly curled	Very hardy; slow bolting.

## LETTUCE

Variety	Days	Head Type	Leaf Type	Leaf Color	Remarks
Bibb .....	60	small butterhead	thick, smooth	deep green	For forcing or first-early.
Dark Green Cos .....	64	cylindrical	slight crumple	dark green	7-8" high; self-closing.
Eiffel Tower Cos .....	75	cylindrical	long, folded	medium green	12-13"; compact.
Grand Rapids .....	43	loose leaf	wavy, fringed	light green	For forcing or greenhouse.
Great Lakes 59 .....	78	solid, flattened, large	smooth, short, crisp	gray green	Uniform; tipburn resistant.
Great Lakes 65* .....	83	solid, large	glossy; medium frilled, crisp	dark green	Similar to Great Lakes 118.
Great Lakes 66* .....	85	solid, large	large; frilled, crisp	dark green	See below.
Great Lakes 118* .....	83	solid, large	thick, glossy, crisp	dark green	See below.
Great Lakes 659 .....	86	solid, medium	large, frilled, deeply cut	dark green	See below.
Midas .....	78	butterhead	somewhat crumpled	bright green	See next page.
No. 101 .....	86	large; medium solid	large, crumpled; medium crisp	medium green	See below.
No. 456* .....	81	solid, medium large	smooth, frilled	light green	See below.
Parris Island Cos .....	70	cylindrical	slight crumple	dark green	See below.
Pennlake .....	77	solid, large	crumpled; not so ribby	dark green	See below.
Prize Head .....	47	loose-leaf	crumpled; frilled	reddish	Standard red-leaf.
Salad Bowl .....	45	loose leaf	deeply notched	light green	Very slow bolting.
White Boston .....	72	butterhead	smooth, wavy	light green	Fanciest of Boston types.
White Paris Cos .....	66	cylindrical	smooth, concave	medium green	9-10" high, compact, crisp.

\*Mosaic-Indexed seed available from 1958 seed crop.



**GREAT LAKES 66.** A new ASGROW selection, distinctive for its large plant and dark green color. Upright, medium frilled wrapper leaves give good protection to the large, well formed heads. Butts unusually smooth and well colored. Matures a few days after Great Lakes 118. Should do well where a large Great Lakes is wanted.

**GREAT LAKES 118.** An ASGROW development and now the leading strain of the Great Lakes type. Widely recognized as the most uniform Great Lakes strain, performing well under a wide range of conditions and giving a heavy first cut of large, attractive heads. Shows good tipburn resistance and is relatively slow to bolt.

**GREAT LAKES 659.** A distinct strain, with large, highly frilled and deeply cut wrapper leaves, maturing somewhat later than other strains. Has performed well for late fall, winter, and spring harvest in the Southwest, and for late summer and fall harvest on muck in northern areas.



No. 101

**PENNLAKE.** Combines the solidity and tipburn resistance of Great Lakes with the larger head size of Imperial 847. Of Great Lakes type, with crisp, dark green smooth leaves, but not so ribby. Notably uniform in maturity. Tolerant of heat and resistant to tipburn when grown as an early summer crop.

**No. 101.** The leading variety of the Imperial type. Use largely restricted to California and Arizona for winter harvest. Heads large, medium solid; excellent quality.

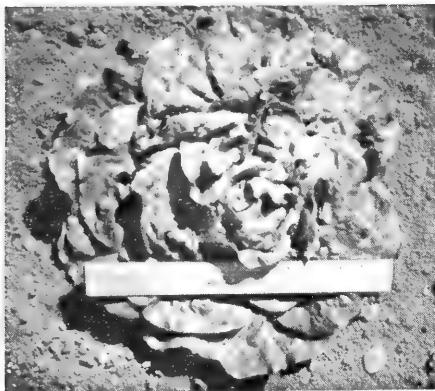
**No. 456.** For summer harvest on muck and heavy soils in the Northeast. Very slow to bolt; resistant to tipburn. Heads more solid and slightly smaller than Great Lakes but more susceptible to frost injury.



No. 456

Continued on next page

## LETTUCE continued



*Midas*

**MIDAS.** New. Slow-bolting Boston type. Heads larger, less solid, later maturing, and longer standing. Leaves bright green, with no brown color, more savoyed than other Bostons. Excellent quality.

**PARRIS ISLAND COS.** Romaine type, tolerant to lettuce mosaic. Rapidly replacing Dark Green Cos, which it resembles. Upright leaves fold nicely into a well formed head.

**WHITE BOSTON.** Choice ASGROW strain of this butter head type. Medium size, free from brown tint; inner heart creamy yellow, succulent. Distinctive quality makes it a favorite in Eastern markets.



*Upper left: Parris Island  
Lower right: White Boston*



*Field packing spreads in the lettuce industry at Cedarville, N.J. (left) and near Salinas, Calif., (right).*



## MELONS

Variety	Days	Length (inches)	Diam.	Weight (pounds)	Rind	Net	Flesh	Remarks
Crenshaw . . . . .	110	10	7	9	green to yellow corrugated	none	thick; sweet, juicy	Southwest only.
Delicious 51 . . . . .	86	6	6	3½	hard; ribbed	coarse	salmon; thick	Local market.
Edisto*† . . . . .	95	7	6	4½	very firm; ribbed	heavy	orange; very thick	See next page.
Golden Beauty Casaba . . .	102	7¾	7¾	7½	yellow; wrinkled	none	white; pleasing	See next page.
Hale's Best No. 36 . . . . .	90	5½	5	2½	firm; indistinct ribs	heavy	salmon; very thick	See next page.
Harvest Queen . . . . .	95	6½	5½	3½	tough; ribbed	coarse	orange; thick; firm	See next page.
Honey Dew . . . . .	110	7¾	6¾	6	white; smooth	none	light green; sweet	See next page.
Honey Rock . . . . .	88	5¾	5½	3	hard; indistinct ribs	coarse	orange; medium thick	Local market.
Jumbo Hale's Best . . . . .	88	6½	5½	3½	firm; prominent ribs	heavy	salmon-orange; thick	See next page.
No. 6* . . . . .	92	5½	5¼	2¾	hard; slight rib	heavy	salmon; firm, sweet	See next page.
No. 45* . . . . .	95	5¾	5	2½	hard; slight rib	heavy	salmon; thick, firm	See next page.
No. 450* . . . . .	96	6¼	5¼	3	hard; slight rib	heavy	salmon; thick, sweet	Good shipper.
Pride of Wisconsin . . . . .	100	6½	5½	3½	tough; slight rib	coarse	orange; very thick	Local market.
Schoon's Hardshell . . . . .	90	7	6	4½	hard; ribbed; gray	coarse	salmon; thick	Local market.
Small Persian . . . . .	110	7¼	7	6	dark green	fine	orange; thick	Southwest only.
Smith's Perfect† . . . . .	95	6½	5½	3½	green to yellow; indistinct ribs	sparse	salmon; med. thick; rich aroma, flavor	Requires picking before full slip.
SR 91 . . . . .	96	6½	5½	3½	hard; slight rib	heavy	salmon; thick	See next page.
SR 91, Improved . . . . .	96	6	5	3	hard, slight rib	heavy	salmon; thick	Sulphur-tolerant.

\* Powdery mildew resistant.

† Downy mildew resistant.

*Continued on next page*



**EDISTO.** A new disease-resistant melon for the local and trucker's market in the Southeast. Tolerant to both downy and powdery mildews. Fruits large, with thick flesh of good texture and flavor. Very firm at picking stage and well suited for uncrated shipping.



**HALE'S BEST NO. 36.** The ASGROW strain of this popular shipping melon has been developed for uniformity of shape and heavy netting, with ribbing practically eliminated. A little earlier and more prolific than the Jumbo strain, it is notably thick-fleshed, with very small seed cavity.



**HARVEST QUEEN.** A fusarium wilt resistant variety for local market in areas where Queen of Colorado, which it resembles, has been used. Rind hard, with heavy net. Flesh bright orange; very thick and firm; of pleasing musky flavor. Holds quality well after picking.



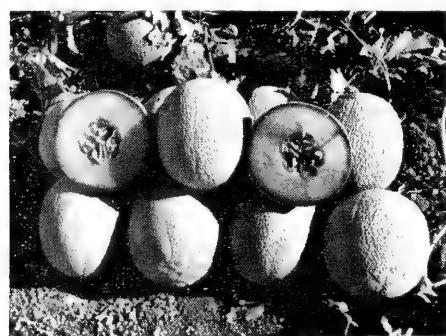
**JUMBO HALE'S BEST.** A large-fruited strain of Hale's Best, extensively grown in warmer areas for distant markets. The large, oval fruits are ribbed and heavily netted. The flesh is thick, salmon-orange, and of good flavor, though perhaps not equal to that of the better mid-season varieties.



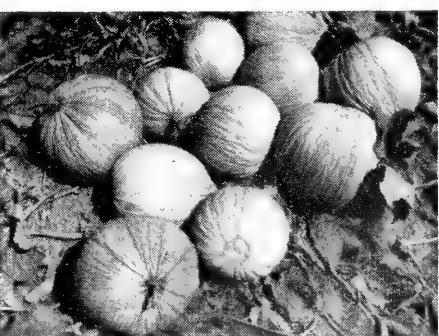
**NO. 6.** A shipping variety of Hale's Best type, widely used in the Rio Grande Valley. Resistant to two strains of powdery mildew found in the Imperial Valley, for which it was originally developed. Fruits nearly round, slightly ribbed. Rind hard, with heavy net; prominent blossom end scar. Flesh thick, firm, sweet.



**NO. 45.** The leading variety for shipping to distant markets because of its firm flesh and dry seed cavity. The ASGROW strain is the result of an extensive breeding program and is noted for its uniformity of fruit size and shape, with heavy, close net.



**SR 91.** A leading shipping variety in the Southwest. Plants vigorous and tolerant of sulphur treatment for powdery mildew control. Fruits of Hale's Best type, blocky oval, with slight rib, hard rind and heavy net. Flesh thick, with small cavity; salmon color, sweet.



**GOLDEN BEAUTY.** A distinctive variety primarily for central California valleys. Plants large, vigorous, with large leaves. Fruits round, pointed at blossom end. Rind green, turning yellow at full maturity; wrinkled, without netting. Flesh white, thick, juicy, with distinctively sweet flavor. Stores well.



**HONEY DEW.** The ASGROW strain of this distinctive variety is noted for its uniformity of shape and size and freedom from net and skin cracks. It has been selected for fruits of the desired medium size and slightly elongated shape, with relatively thick flesh and small seed cavity.

## MUSTARD

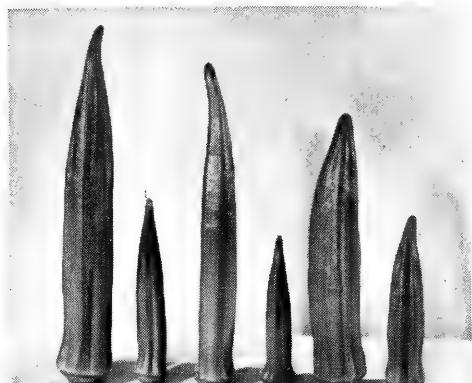
Variety	Days	Plant Type	Leaf Type	Leaf Color	Remarks
Chinese Broad Leaf .....	45	spreading	crumpled, scalloped edges	medium green	Fine flavor.
Florida Broad Leaf .....	50	large, upright	large, saw-tooth edges	bright green	See below.
Fordhook Fancy .....	50	upright	deeply fringed and cut	bright green	See below.
Southern Giant Curled, Long Standing	45	large, upright	large, wide, very curly	bright green	See below.
Tendergreen (Mustard Spinach) .....	35	large rosette	oblong, thick, smooth	dark green	See below.



Mustard — Above, Fordhook Fancy. Below, Tendergreen; Florida Broad Leaf; Southern Giant Curled, Long Standing

### MUSTARD

**SOUTHERN GIANT CURLED, LONG STANDING.** An improved strain, with ability to stand longer before bolting to seed, though a little later maturing than the original. Plants medium large, somewhat spreading, but mostly upright. Leaves large, broad; bright green; curled and frilled at edges.



Okra — Perkins' Spineless : Louisiana Green Velvet : Clemson Spineless

### OKRA

**PERKINS' SPINELESS.** An improved variety for general use, replacing the spiny Perkins Mammoth, to which it is much superior. Plants dwarf, early, prolific. Pods bright green, slender, ribbed.

## OKRA

Varieties	Days	Plant	Pods Length	Pod Type	Color	Remarks
Clemson Spineless .....	55	4½ ft.	6 in.	angular, ridged	rich green	Very uniform, spineless.
Emerald .....	55	5 ft.	8 in.	round, spineless	dark green	Thick walls; high quality.
Louisiana White Velvet .....	58	6 ft.	6½ in.	ribless, slender	creamy white	Prolific, spineless.
Perkins' Spineless .....	50	3 ft.	7 in.	ribbed, slender	bright green	See above.

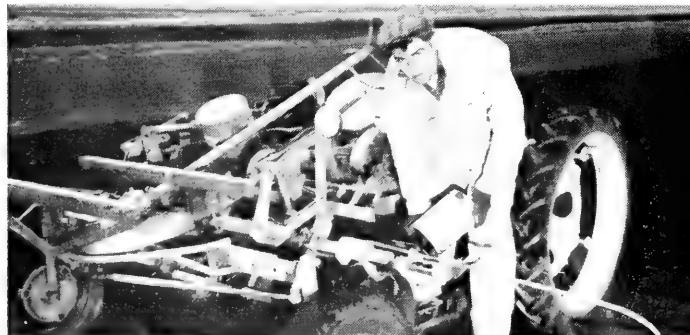
## ONION

In this catalog, onion varieties are grouped according to the geographical latitudes in which they can best be grown. This takes into account the critical factor of day length and also coincides generally with cultural and marketing practices prevailing in the major onion-growing areas.

**Group I** lists varieties commonly called "short-day" onions, which are adapted for latitudes between 24° and 28°, principally southern Texas, where they are planted in the fall and harvested in early spring for prompt marketing.

**Group II** includes varieties for use in mild-weather areas between 32° and 40°, chiefly in California, Texas, and the Eastern Seaboard, where they can be seeded in the fall and harvested in late spring and early summer for prompt shipment to market.

**Group III** comprises varieties adapted for the main onion areas north of 36°, where they are seeded or transplanted in early spring for late summer and fall harvest, either for prompt shipment to market or for prolonged storage.



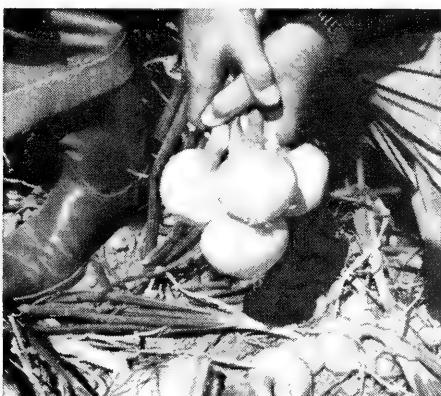
From the mucklands of New York State (left) to California, (right), ASGROW VIGORPAK onion seed gives rapid, uniform emergence, strong seedling vigor.

## Group I

The figure for days represents the average period from field seeding in the fall to early spring harvest in southern Texas.

Variety	Days	Shape	Size	Skin	Flesh	Remarks
<b>HYBRIDS</b>						
Asgrow W10*	165	thick-flat	large	white	white, mild	See below.
Asgrow Y2*	170	thick-flat	large	yellow, heavy	white, mild	See below.
Asgrow Y5*	165	flat	medium	yellow	white, mild	See below.
Asgrow Y32*	162	deep flat	very large	yellow	white, mild	See below.
Asgrow Y33*	162	deep flat	large	yellow	white, mild	See below.
Granex*	165	deep-flat	large	yellow	white, mild	See below.
White Granex*	170	thick-flat	large	white	white, mild	See next page.
<b>OPEN-POLLINATED</b>						
Crystal Wax (White Bermuda)	180	very flat	medium	white	white, mild	Standard white.
Early Crystal 281*	160	thick-flat	medium	white	white, mild	First early; non-bolting.
Eclipse*	180	flat	medium	white	white, mild	See next page.
Excel (Bermuda 986)*	180	thick-flat	medium	yellow	white, mild	See next page.
Texas Grano 502	168	top-shape	large	straw-yellow	white, mild	High, marketable yield.

\* Tolerant to pink root.



**ASGROW W10.** A new ASGROW hybrid in the White Granex class, but slightly earlier. Bulbs flattened globe, of clear white color, very attractive, mild. Relatively free from bolting and splitting. Should give higher marketable yields than Eclipse and other Crystal Wax types.



**ASGROW Y2.** Generally similar to Granex but slightly later in maturity. Bulbs large, thick-flat to semi-globe in shape; yellow, with attractive, medium heavy scales. Relatively non-bolting and non-splitting, producing unusually attractive bulbs. Flesh mild, sweet.



**ASGROW Y5.** A new ASGROW hybrid of unusual promise as a flat, yellow Bermuda type, maturing about two weeks before Excel and producing significantly heavier yields of marketable bulbs. Exceptionally free from bolting and splitting. Bulbs flat, with lustrous yellow skin. Necks refined, curing well.



**ASGROW Y32.** A new ASGROW hybrid of Granex type but a few days earlier, and producing somewhat larger bulbs of deep flat to semi-globe shape, with attractive medium yellow skin. Trials indicate this new ASGROW hybrid will give heavy yields in southern Texas.



**ASGROW Y33.** Another new ASGROW hybrid from the extensive ASGROW onion breeding program for South Texas. Generally similar to Granex but earlier maturing. Tops dark green, necks refined, curing well. Bulbs deep flat, large, attractive.



**GRANEX.** An outstanding first-early hybrid; vigorous at all stages, and tolerant of pink-root disease. Bulbs deep-flat, with full base, well covered with attractive yellow skin. Flesh sweet and mild, but stores fairly well.

*Continued on next page*

## ONION continued



**WHITE GRANEX.** A distinctive hybrid, resembling Granex in maturity and thick-flat shape, but white in color. Outyields such flat Crystal Wax types as Early Crystal 281 and Eclipse. Relatively non-bolting and non-splitting; tolerant to pink root.



**ECLIPSE.** Leading white variety in this Group, replacing Crystal Wax. Bulbs medium large, thick-flat, with attractive, clear white skins. Flesh white, mild. Relatively free from bolting and splitting, with good resistance to pink root.



**EXCEL.** An important open-pollinated variety resembling the older Yellow Bermuda, which it has replaced, being earlier and less subject to splitting and bolting. Bulbs uniform thick-flat; of medium size, with yellow skins and mild, white flesh.

### Group II

*The figure for days represents the average period from field seeding in the fall to late spring and early summer harvest in central California.*

Variety	Days	Shape	Size	Skin	Flesh	Remarks
<b>HYBRIDS</b>						
Asgrow W1	215	thick-flat	medium to large	white	white; mild	See below.
Asgrow Y50	226	tapered globe	medium to large	yellow	soft; mild	See below.
<b>OPEN-POLLINATED</b>						
San Joaquin	222	tapered globe	large	straw yellow	medium firm; mild	See below.
White Grano	220	tapered globe	medium	white	white; mild	Attractive.



Grading and packing onions, Carrizo Springs, Texas.



Field grading onions, San Joaquin Valley, Calif.



**ASGROW W1.** Developed for use in southern and central California, but of potential value in other areas of the same latitude. Later than Eclipse or Early Crystal 281, but produces heavier yields and larger bulbs in latitudes above South Texas.



**ASGROW Y50.** Especially adapted for fall seeding in central California because of its non-bolting characteristics. Produces good yields of medium to large-sized bulbs of adequate shipping and storage quality for the second-early crop.



**SAN JOAQUIN.** Standard open-pollinated variety in this Group, relatively non-bolting. Produces good yields of medium to large-sized bulbs of satisfactory shipping quality. Also used in the Mid-South and along the Middle Atlantic Seaboard.

### Group III

The figure for days represents the average period from field seeding in the spring to late summer harvest in northern states

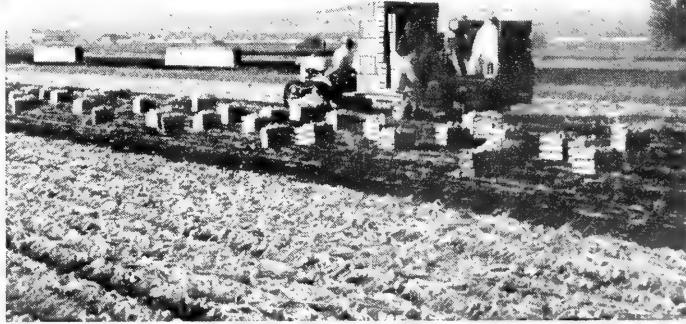
Variety	Days	Shape	Size	Skin	Flesh	Storage	Remarks
<b>HYBRIDS</b>							
Abundance	103	deep globe	large	light yellow	soft; pungent	fair	See below.
Aristocrat	105	globe	medium	yellow	firm; pungent	good	See next page.
Asgrow Y42	105	globe	large	yellow	medium firm; mild	medium	For Northern muck.
Asgrow Y43	108	near-globe	large	yel.-brown	med. firm; pungent	medium	See below.
Asgrow Y53	115	oval globe	large	yellow	medium firm; mild	medium	See below.
Asgrow B47	110	globe	medium	brown	hard; pungent	excellent	For storage.
Asgrow W45	100	globe	medium	white	med. firm; pungent	medium	Early white.
Autumn Spice	95	globe	med. small	brownish	firm; pungent	good	For short season.
Brown Beauty	110	globe	large	red-brown	firm; mild	good	Sweet Spanish type.
Early Harvest	85	deep globe	medium	light yellow	soft; mild	no	First early.
Elite	105	tall globe	medium	yellow	firm; pungent	very good	See next page.
Encore	94	globe	medium	yellow	firm; pungent	good	For short season.
Epoch	95	tall globe	medium	dark yellow	very firm; pungent	excellent	See next page.
Fiesta	110	deep globe	large	yel.-brown	firm; pungent	good	Sweet Spanish type.
Premier	103	tall globe	med. lge.	med. yellow	firm; pungent	very good	High yields.
Spartan	105	tall globe	med. small	dark yellow	very firm; pungent	very good	Good for storage.
<b>OPEN-POLLINATED</b>							
Australian Brown	100	deep-flat	small	brown	yellow, pungent	excellent	For storage.
Downing Yellow Globe (Brigham)	110	globe	medium	brownish	very solid	very good	See next page.
Early Yellow Globe	98	globe	medium	yellow	medium soft	fair	Standard early.
Iowa 44	110	globe	medium	dark yellow	firm; pungent	good	For storage.
Southport Red Globe	110	globe	medium	deep red	firm; pungent	good	Standard red.
Southport White Globe	110	round	medium	white, thin	fine, solid	good	See next page.
White Portugal (Silverskin)	100	thick-flat	medium	white	hard, fine-grained	good	All-purpose.
White Sweet Spanish	110	globe	large	white	hard, mild	fair	Largest white.
Yellow Sweet Spanish	125	globe	large	yel.-brown	sweet, mild	good	See next page.



**ASGROW Y43.** High yielding. Adapted for North Central muck areas and as an earlier maturing type where Yellow Sweet Spanish is grown. Produces good percentage of jumbos, with good storage quality, holding well until mid-winter.

**ASGROW Y53.** Resembles Yellow Sweet Spanish but earlier, with less bolting. Excellent vigor. Bulbs mostly jumbos, well covered with medium to heavy reddish brown scales. Flesh relatively mild. Not primarily for storage but equal to Spanish.

**ABUNDANCE.** Of Early Yellow Globe type and similarly adapted but consistently heavier yielding. Bulbs large, deep globe. Skin light yellow; flesh soft, but relatively pungent. Can be stored until early winter.



Harvesting onions by hand and by machine in Orange County, N.Y. Bulbs are cured in field for early fall shipment.

## ONION continued



**ARISTOCRAT.** A main-crop hybrid of Brigham Yellow Globe type, but somewhat heavier yielding. Adapted for midwestern areas where Brigham is used, but also of interest for the Northwest. Bulbs store well into late winter.



**ELITE.** Of Early Yellow Globe type but later, significantly heavier yielding and of much better storage quality. Trials indicate particular adaptation for muckland areas of New York State.



**EPOCH.** A very attractive hybrid of Brigham Yellow Globe type, relatively early and of excellent storage quality. Flesh very firm, with scales adhering well in prolonged storage. Well suited for cello-pack, but not so productive as some other hybrids.



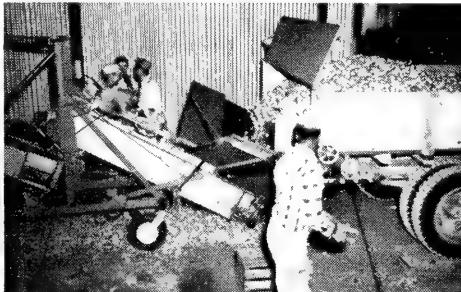
**DOWNING YELLOW GLOBE** (Brigham). A leading variety used in muck areas of North Central States for shipment from storage. Bulbs medium size. Skins reddish brown, heavy; flesh solid. Excellent storage quality, holding well for late winter deliveries.



**SOUTHPORT WHITE GLOBE.** The standard main crop white variety for storage and for dehydrating. Bulbs of medium size, globe-shaped. Flesh of fine texture, firm, and pungent. Skins clear white, thin, of waxy appearance.



**YELLOW SWEET SPANISH.** The leading open pollinated variety for producing large bulbs for slicing. Late maturing; somewhat subject to bolting after prolonged cool weather. Bulbs very large, with many jumbos. Flesh mild, sweet, of fairly good storage quality.



Harvesting and handling onions with machinery, for prolonged storage in bulk.

### Bunching Varieties

Any of the standard onion varieties can be used as "green bunching" onions if harvested at the proper stage. Varieties most generally so used are Crystal Wax (in the South), Southport White Globe, White Portugal, and White Sweet Spanish, which are described above.

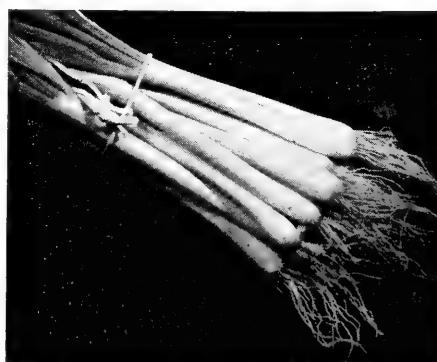
#### BELTSVILLE BUNCHING

A distinctive variety, for bunching only, developed by crossing White Portugal and Nebuka, the sterile F<sub>1</sub>, being made fertile by artificially doubling the chromosomes. Produces somewhat shorter, thicker stems than Evergreen Bunching.

Days  
60

#### EVERGREEN (Nebuka)

A bulbless variety grown for bunching only. Stems very long, pure white, tender and of delicate flavor. Plants slow bolting; resistant to pink root, thrips and smut.



Evergreen

## PARSLEY

Variety	Days	Leaf Type	Leaf Color	Use	Remarks
Dark Green Italian . . . . .	72	flat, heavy	dark; glossy	flavoring	Plain type; more attractive.
Moss Curled (Triple Curled) . .	70	finely cut deep curl	dark green	garnishing	Attractive, productive.
Plain . . . . .	72	flat, deeply cut	bright green	flavoring	Standard variety for flavoring.
Hamburg . . . . .	90	plain	medium	flavoring	For roots only; 8"-10" long.

## PARSNIP

**ALL-AMERICA.** 95 days. Roots large, broad-shouldered, medium length, fine texture, white color, with small core. Very free from side rootlets.

**HOLLOW CROWN.** 95 days. Roots 10"-12" long, 2½"-3" diameter at shoulder, hollow crowned, uniformly tapered. A standard variety.

## PEAS

Varieties	Days	Height (inches)	Length	Pod Shape	Color	Peas Per Pod	Remarks
Alderman (Telephone)* . . . . .	74	60	4½	pointed	dark	8-10	High quality; productive.
Laxton's Progress . . . . .	62	16	4½	pointed	dark	7-9	Superior ASGROW strain.
Little Marvel . . . . .	64	18	3	blunt	dark	7-8	Good yielder, high quality.
No. 40* . . . . .	74	28	5	pointed	dark	8-10	See below.
Progress No. 9* . . . . .	60	20	4½	pointed	dark	7-9	See below.
Rondo . . . . .	72	28	4½	pointed	very dark	7-8	See below.
World's Record* . . . . .	57	32	3¾	pointed	medium	7-9	See below.

### EDIBLE-PODDED

Dwarf Gray Sugar\* . . . . . 65 28 3 broad, flat light .... Standard early variety.

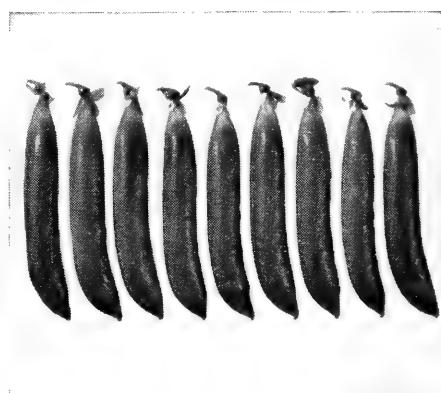
\* Resistant to fusarium wilt.



No. 40

**No. 40.** A high-quality, late variety for shippers and market gardeners, selected by ASGROW from the older Giant Stride and purelined. Plants dark green, stocky and branching; wilt-resistant. Pods attractive, dark green, and exceptionally large, containing 8 - 10 large, succulent peas.

**PROGRESS No. 9.** A leading large-podded variety for distant shipping and early local market, resembling Laxton's Progress but resistant to fusarium wilt and somewhat larger in plant and pods. Plants determinate, compact, vigorous. Pods large, slightly curved, well filled.



Progress No. 9



Rondo

**RONDO.** An attractive, late-season, dwarf variety, developed by ASGROW for the fresh market. Plants dark green and productive. Pods resemble Alderman, but mostly double; large, long, straight, pointed, and well filled with excellent quality peas, giving good weight in hamper or basket.

**WORLD'S RECORD.** The wilt-resistant ASGROW strain, developed to furnish growers with an attractive, productive, high-quality pea for first-early market. Resembles and matures in season with older strains, but the pods are somewhat darker and more attractive on the stand or in the market.



World's Record

## PEPPER

Variety	Days	Bearing habit	Fruit lobes	Dimensions (inches)	Walls	Flavor	Remarks
Allbig	65	pendent	3-4	5 1/4 x 3 3/4	medium	sweet	See next page.
Anaheim (California) Chili	80	pendent	pointed	7 x 1 1/2	thin	med. hot	Very prolific.
California Wonder	75	upright	mostly 4	4 x 3 3/4	thick	sweet	See below.
Cuban	62	pendent	2-3	6 x 2	medium	sweet	See below.
Early Calwonder	69	upright	3-4	4 x 3 1/2	thick	sweet	For short season areas.
Floral Gem	75	upright	pointed	2 1/4 x 1	thin	hot	For canning and pickling.
Florida Giant	75	upright	mostly 4	4 1/2 x 3 3/4	thick	sweet	See below.
Fresno Chili	80	upright	pointed	2 x 1	medium	very hot	Dark green; prolific.
Hungarian Yellow Wax	65	pendent	pointed	6 x 1 1/4	thin	hot	Very uniform strain.
Italian El	65	upright	3	4 x 2	thin	sweet	Green-fruited Neapolitan.
Jalapeno	75	pendent	pointed	2 1/2 x 1	medium	very hot	Dark green; for pickling.
Long Thin Cayenne	70	pendent	pointed	5 x 1/2	thin	very hot	For canning and pickling.
Neapolitan	60	upright	3	4 x 2	thin	sweet	Yellowish; early, prolific.
Pimento	80	pendent	pointed	3 1/2 x 2 1/2	thick	sweet	Heart-shaped; prolific.
Red Cherry	80	upright	round	1 x 1	thick	hot	For pickling.
Ruby King	68	pendent	3	5 1/4 x 3 1/2	medium	sweet	Productive.
Sunnybrook	73	pendent	flat	2 1/2 x 2 3/4	thick	sweet	Pickling; prolific.
Thick Wall World Beater	70	pendent	3-4	4 3/4 x 3 3/4	medium	sweet	See next page.
Yolo Wonder A	75	pendent	3-4	4 1/2 x 3 3/4	thick	sweet	See below.



Florida Giant   California Wonder   Early Calwonder   Yolo Wonder A   World Beater   Allbig   Ruby King   Cuban   Italian El   Neapolitan   Pimento   Sunnybrook

Asgrow

Asgrow



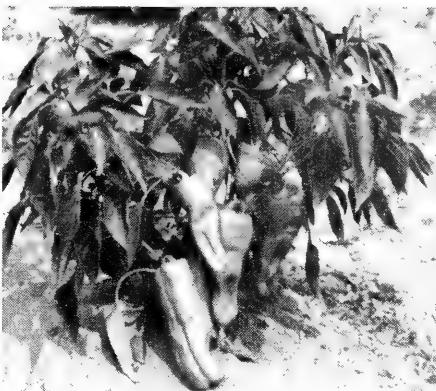
**CALIFORNIA WONDER.** The standard and most widely used variety for distant shipping and local market. Plants vigorous, upright, prolific. Fruits upright, dark green, blocky, with little or no taper; largely 4 lobed; thick-walled, sweet.

**FLORIDA GIANT.** An ASGROW strain of California Wonder, selected for eastern markets, where a somewhat longer fruit is desired. Plants vigorous, upright, prolific. Fruits upright, dark green, oblong, with little or no taper; largely 4-lobed, with thick walls.

**YOLO WONDER A.** Tobacco mosaic resistant. An ASGROW strain superior to the original Yolo Wonder in higher percentage of 4-lobed fruits and in greater uniformity of desirable blocky fruit type, similar to California Wonder. Plants upright, vigorous, giving good cover, but compact, permitting close planting. Heavy crown set.



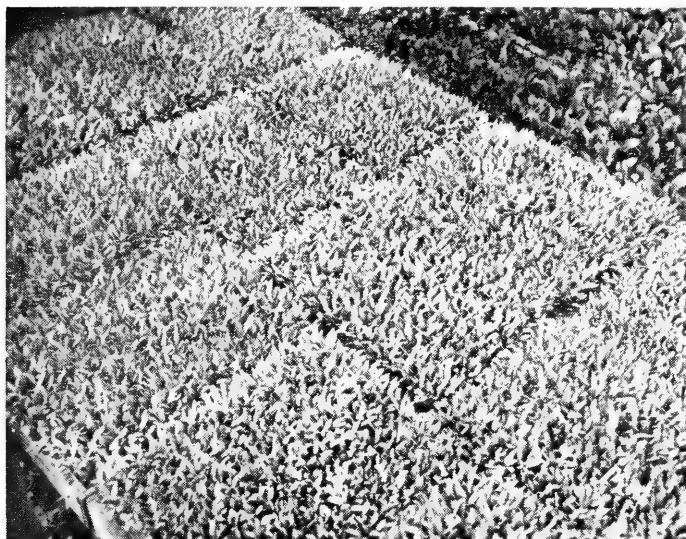
**ALLBIG.** An early maturing variety well suited for local market in cooler northern areas, but capable of setting fruits well in hot weather. Plants medium large, upright. Fruits midway in shape between World Beater and Ruby King. Originally introduced as Illinois F5.



**CUBAN.** A distinctive sort, of the Neapolitan type, producing longer, relatively slender yellowish-green fruits of mild flavor. Particularly suitable for those areas where peppers are widely used for frying. Cuban is an attractive and productive variety.



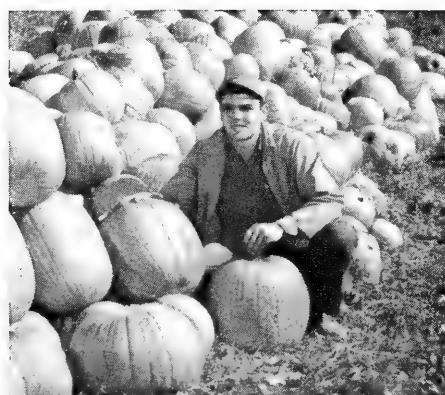
**THICK WALL WORLD BEATER.** A distinctly heavier walled, mosaic-resistant strain of World Beater, selected by ASGROW to replace both the original and other resistant strains. Plants upright, large, vigorous, heavy yielding. Fruits generally blocky, but less smooth than California Wonder, with more taper at blossom end.



ASGROW VIGORPAK processed pepper seed gives better assurance of a uniform, vigorous stand of plants, whether started in flats or plant beds or when seeded directly in the field.



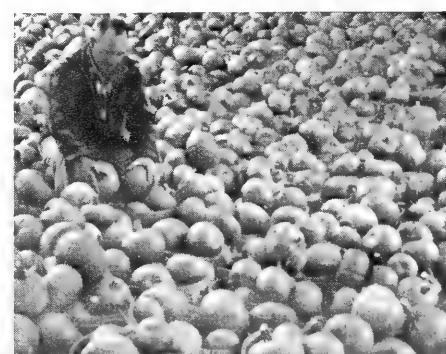
## PUMPKIN



*Connecticut Field*

**CONNECTICUT FIELD.** 118 days. Length 12"; diameter 14". Fruits deep globe shape 15-20 lbs. Surface smooth, somewhat ribbed; deep orange. Flesh thick, orange yellow, somewhat coarse.

**SMALL SUGAR (New England Pie).** 108 days. Length 7"; diameter 8". Of small, handy size, but tonnage equals that of larger varieties. Fruits round, flattened at ends, 6-8 lbs. Skin hard, smooth, somewhat ribbed, deep orange. Better texture and flavor than Connecticut Field. One of the best varieties for general use.

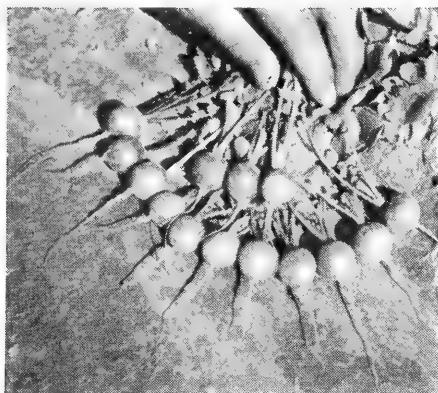


*Small Sugar*



## RADISH

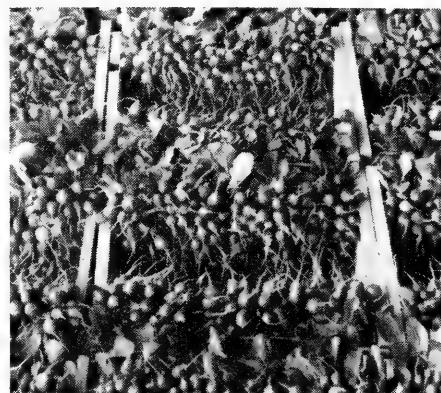
Variety	Days	Shape	Tops	Remarks
Buccaneer	23	globe	medium short	Lustrous, scarlet; attractive.
Cavalier	23	olive	medium	Attractive for bunching or pre-pack.
Cherry Belle	23	globe	short	See below.
Comet	24	globe	medium	Crisp, solid, holds well for market.
Early Scarlet Globe, Medium Top	23	globe	medium	Good shape and color; for spring and fall.
Globemaster	23	globe	short	See below.
Saxa	22	round	very short	Bright scarlet; often used for forcing.
Short Top Scarlet Globe	23	globe	short	Short-topped market growers' strain.
Southern Market Globe	24	globe	medium	Deep scarlet; attractive.
Sparkler (Early Scarlet Turnip, White-Tipped)	26	round	medium	Popular with market gardeners.
White Icicle	27	long	medium	Attractive ASGROW strain.
Woodruff's Beauty	23	globe	short	Uniform. Excellent for early market.



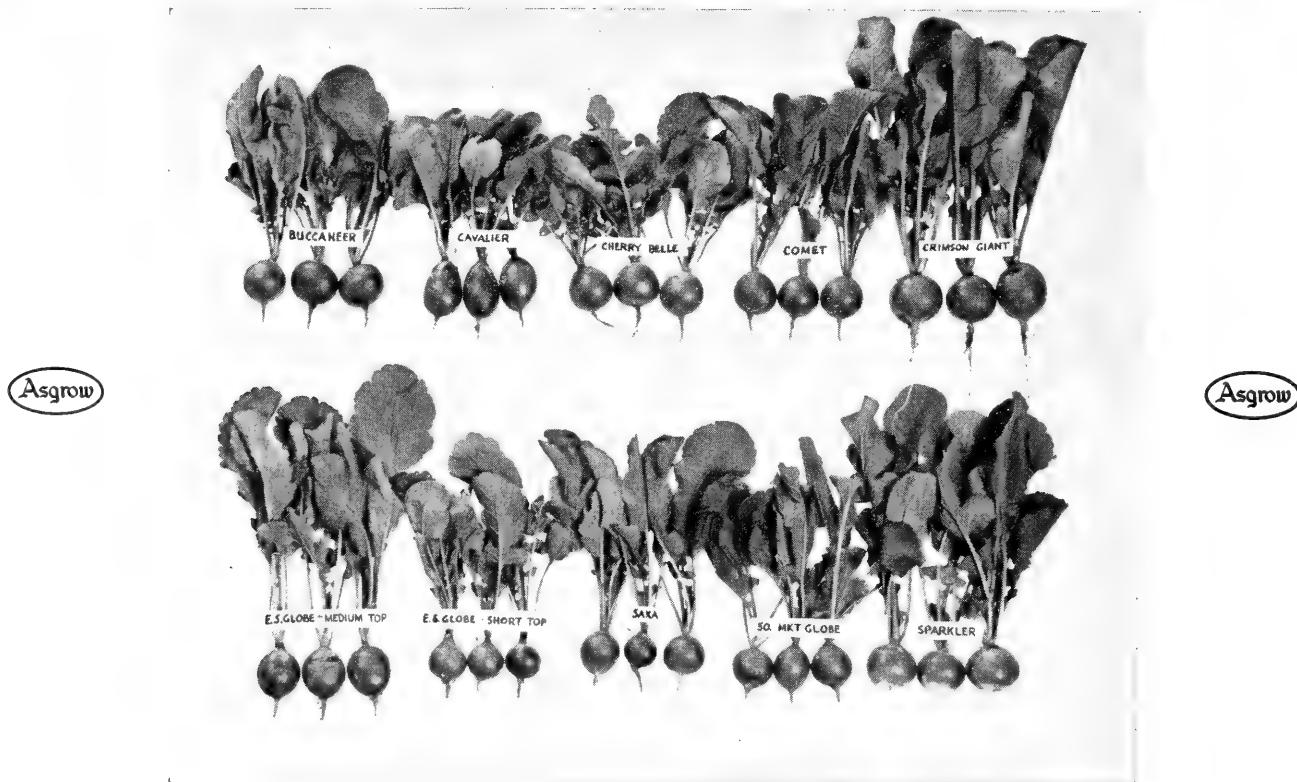
Cherry Belle

**CHERRY BELLE.** One of the most desirable of the newer introductions. Of Early Scarlet Globe shape but bright cherry red in color. The tops are very short, even in warm weather, making Cherry Belle a nice radish for greenhouse, frame, or warm weather plantings. The uniformity of the ASGROW strain makes for nearly 100 percent marketable roots.

**GLOBEMASTER.** An ASGROW introduction of Scarlet Globe type, for bunching or for pre-pack. Roots true globe, brilliant scarlet, white flesh, small tap root. Tops short, for mechanical harvesting, but better suited than Cherry Belle for bunching under early spring conditions.



Globemaster

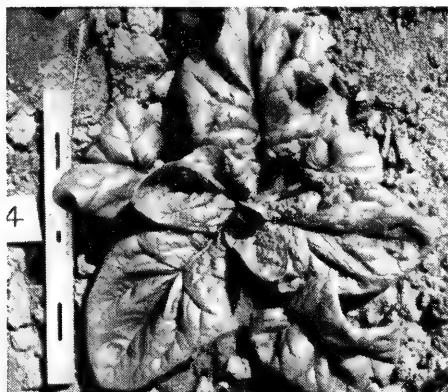


## SALSIFY

**MAMMOTH SANDWICH ISLAND.** The standard variety. Slow growing; requires all season and is better if frosted. Roots 8"-9" long, 1"-1½" thick, tapering gradually.

## SPINACH

Variety	Days	Plant Type	Leaf Type	Season	Remarks
America	50	low-growing	savoyed, thick	summer	Very slow bolting.
Bloomsdale Savoy, Long Standing	42	large, erect	highly savoyed	late spring	Relatively slow bolting.
Califlay	40	large, spreading	broad, smooth	fall, winter	See below.
Dark Green Bloomsdale	40	large, erect	large, savoyed	early spring	Holds dark color well.
Dixie Market	37	compact, upright	thick, savoyed	fall, winter	See below.
Early Hybrid 7	37	vigorous, upright	large, semi-savoy	fall, winter	See below.
Giant Nobel	45	vigorous, spreading	large, smooth	late spring to early fall	Slow bolting; heavy yielding.
New Zealand (not a true spinach)	70	large, spreading	small, thick, pointed	summer	For repeated cutting.
Old Dominion	42	vigorous	pointed, savoyed	fall, winter	Blight-resistant.
Viking (Northland, Heavy Pack)	45	large, spreading	smooth, large, thick	spring	Long standing.
Virginia Savoy (Blight Resistant)	39	vigorous	thick, savoyed	fall, winter	See below.
Viroflay	40	vigorous	broad; smooth, pointed	fall, winter	For processing.



Califlay

**CALIFLAY.** A recent development, resembling Viroflay and similarly adapted, but resistant to downy mildew (blue mold). Primarily for processing. Plants large, vigorous, spreading, but more upright than Viroflay. Leaves medium green, generally flat, with some savoy at early stages.

**DIXIE MARKET.** New. A savoy-leaved shipping variety, resistant to both downy mildew (blue mold) and cucumber mosaic (blight) for winter production in the South. Plants upright, compact. Leaves dark green, rounded, thick, and well savoyed; more productive than standard Bloomsdale types.



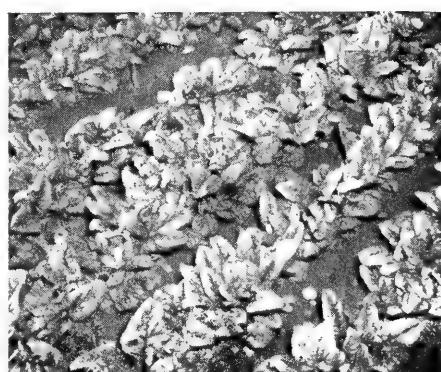
Dixie Market



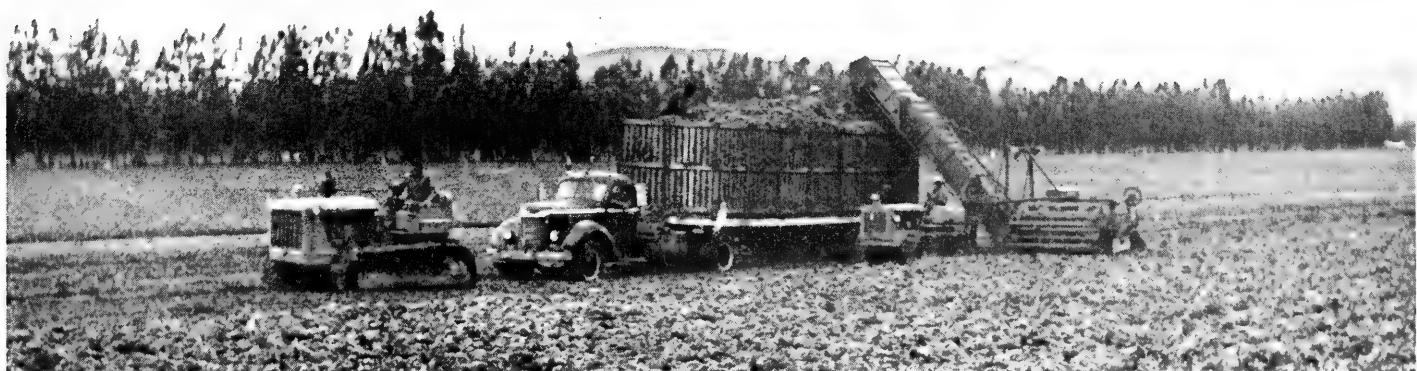
Early Hybrid 7

**EARLY HYBRID 7.** The first commercial  $F_1$  hybrid spinach. Fast growing, and high yielding; resistant to downy mildew and to blight. The plants are relatively upright, with large, dark green, medium savoyed leaves. Developed primarily for fall and winter harvest in the South and West; not recommended for spring or summer use, because of its quick-bolting habit.

**VIRGINIA SAVOY.** An important, blight-resistant variety for late fall and winter harvesting in the lower Tri-States area and in the South. The plants are vigorous, but not long-standing. The leaves are less crumpled than other savoy-leaved varieties.



Virginia Savoy



Harvesting Viroflay for processing, Salinas Valley, California.

## SQUASH, SUMMER

Variety	Days To Picking Stage	Fruit Shape	Length at Picking (inches)	Color	Remarks
Benning Green Tint .....	47	pie, scalloped	4" diam.	pale green	Earlier, better color than White Bush Scallop.
Black Zucchini .....	44	cylindrical	6-8	dark, greenish black	Popular in West and South.
Cozella (hybrid) .....	41	thin cylinder	8-10	dark green, light stripes	See below.
Cozini .....	42	straight, blocky	6-8	dark green	Fine quality, flavor.
Early Prolific Straightneck ....	46	tapered cylinder	5-6	lemon yellow	See below.
Early Yellow Summer Crookneck	48	long, curved neck	5-6	lemon yellow	See below.
Long Cocozelle .....	44	thin cylinder	8-10	dark green, light stripes	Prolific ASGROW strain.
White Bush Scallop .....	50	pie, scalloped	4" diam.	pale green-white	Uniform ASGROW strain.
Zucchini .....	42	cylinder	5-7	med. green, gray-green mottle	Firm flesh, fine flavor.



**EARLY PROLIFIC STRAIGHTNECK.** The standard yellow summer squash in many parts of the country. The plants are of bush type, leafy, and vigorous, producing heavily over a long period if young fruits are kept picked. The fruits are attractive, lemon yellow, tapering towards the stem end, tender and succulent at prime picking stage, 5"-6" long. The ASGROW strain is kept at the top for uniformity, quality, and productivity.

**EARLY YELLOW SUMMER CROOKNECK.** Extensively used in the South and other areas for yellow summer squash. The plants are very prolific; the fruits, normally picked at 5"-6", are curved at the neck and light yellow at prime picking stage. Growers for the critical markets where this variety is popular have long recognized the ASGROW stock as being the standard of comparison for yields, quality and trueness to type.

**COZELLA (hybrid).** A distinctive ASGROW development, of Long Cocozelle type, with unusually attractive, glossy fruits. Plants of single-stem type, producing heavy early crop of medium-long, straight fruits of excellent quality. Fruits medium green, with dark green stripes, distinguished by an unusual sheen. Differs from any other hybrid of this type, one of its parents being an ASGROW development used only for making this cross.



**The ASGROW RESEARCH CENTER, near Twin Falls, Idaho.**

Here, in the heart of an important seed-producing area, ASGROW scientists and technicians work the year around, testing seeds, developing new varieties, and perfecting better methods of growing, harvesting, and processing seeds. The Asgrow Department of Breeding and Research operates seven experiment stations in different parts of the country.

## SQUASH, WINTER

Variety	Days	Fruit Size	Shape	Rind	Remarks
Blue Hubbard .....	100	14" x 9" 12-14 lbs.	pointed at both ends, hump at stem end	corrugated, hard; blue-gray	Uniform strain, popular.
Boston Marrow .....	97	12" x 9" 6-8 lbs.	like Hubbard but more nearly round	rough, hard, orange with light streaks	Good shipper.
Butternut 23 .....	90	9" x 3½" 3-4 lbs.	cylindrical, with bulbous blossom end	light tan, thin, hard	See below.
Green Hubbard .....	105	12" x 9" 10-12 lbs.	resembles Blue Hubbard	warted, dark bronze- green; hard, tough	Widely used.
Pink Banana .....	105	20" x 5" 10-12 lb.	cylindrical; pointed at bottom end	thin, pink	Flesh thick, fine; popular in Far West.
Royal Acorn .....	90	8" x 6½" 3-4 lbs.	heart-shaped	smooth, hard; deep, ribs; dark green	Resembles Table Queen, but larger, less prolific.
Table Queen .....	85	6" x 4½" 1½-1¾ lbs.	heart-shaped	smooth, hard; deep, ribs; dark green	See below.

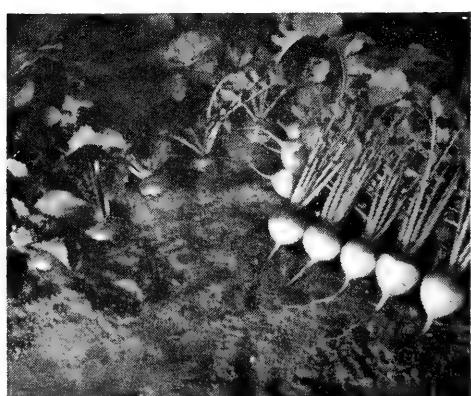


**TABLE QUEEN (Des Moines, Acorn).** A popular small sort for baking because of its neat size and excellent flavor. An extensive program of selection and maintenance has made the ASGROW strain of this standard variety famous for its remarkable uniformity and trueness to type.

**BUTTERNUT 23.** A distinct ASGROW strain, more nearly uniform than the somewhat variable original Butternut. Fruit of blocky-cylinder shape, with thick, solid neck, small seed cavity and slight bulb at blossom end. Rind light tan, smooth, thin, hard. Flesh bright orange, fine-grained, of excellent table quality. Medium storage.

## TURNIP & RUTABAGA

Variety	Days	Shape	Diameter (inches)	Skin Color	Flesh	Remarks
<b>TURNIP</b>						
Purple Top White Globe .....	55	globe	4	white, purple top	white	See below.
Seven Top .....	45	..	..	..	..	For greens only.
Shogoin .....	30	semi-globe	2½	white	white	For greens, or small roots.
White Egg .....	60	egg-shaped	2¼	white	white	Popular in South.
Yellow Globe (Amber Globe) ..	75	globe	4	light yellow	yellowish white	Young roots of good quality.
<b>RUTABAGA</b>						
American Purple Top .....	90	near-globe	5	yellow: purple top	yellow	See below.



Purple Top White Globe

**PURPLE TOP WHITE GLOBE.** The ASGROW strain of this leading variety is widely recognized as outstanding for trueness to type and for uniformity of size, shape and color, the result of careful selection of parent roots for seed production made at our breeding stations.

**AMERICAN PURPLE TOP.** The leading variety for local market and shipping, storing well for delivery over a long season. Roots large, nearly globe-shaped, with relatively small neck. Flesh light yellow, firm, of good texture and quality.



American Purple Top

# TOMATO

Variety	Days†	Plant Type**	Fruit Size	Fruit Shape	Remarks
Ace .....	88	D medium large	large	flattened globe	See below.
California First Early (101X) ...	68	I medium, open	medium	flattened globe	For winter crops in California.
Earlypak 7 .....	78	D medium-compact	medium	deep globe	For early shipping, California.
Grothen's Globe W.R.* .....	75	I medium open	medium small	deep globe	For green wrap; staked.
Homestead 24* .....	82	D medium large	large	medium globe	See next page.
Jefferson* .....	83	I large	medium large	globe	See next page.
Kokomo* .....	86	I large	medium large	globe	High quality; less cracking.
Manalucie* .....	92	I very large	medium large	deep globe	For green-pink shipping.
Marglobe .....	77	I large	medium	deep globe	Choice ASGROW strain.
Pearson, Improved .....	90	D large	medium	flattened globe	For shipping, canning; Far West.
Pearson S .....	90	D large	medium	medium globe	See next page.
Pearson VF 6*‡ .....	90	D large	medium large	full globe	See next page.
Pearson VF 11*‡ .....	95	D large	medium large	medium globe	See next page.
Pritchard .....	76	D medium	medium	medium globe	Used as staked tomato.
Red Top .....	76	D small	small	long oval	See next page.
Roma* .....	76	D small	small	deep oval	Wilt-resistant Red Top.
Rutgers .....	86	I large	large	globe	See next page.
San Marzano .....	90	I large, open	small	nearly oblong	For paste; prolific, in clusters.
Sioux .....	70	D medium, open	medium	medium globe	Smooth; heavy set; uniform ripening.
Texto 2* .....	82	D medium large	large	medium globe	For green wrap, Texas.
Urbana .....	78	D med. compact	medium	medium globe	Prolific. For close planting.
Valiant .....	70	I medium, open	medium	globe	ASGROW strain; heavy crown set.
Waltham Trellis 22 .....	75	I medium	medium	flattened globe	Thick walls; good shipper.

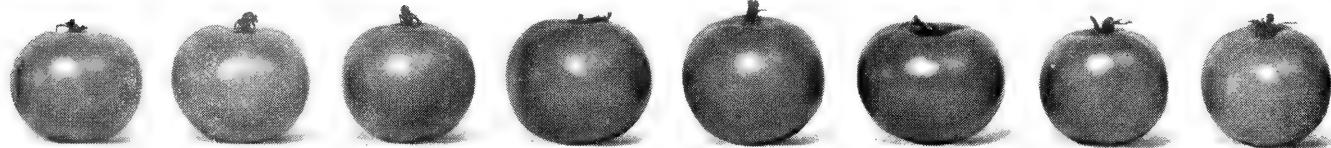
\* Resistant to Fusarium wilt.

† From transplanting.

\*\* D - determinate vine

I - indeterminate vine

‡ Resistant to verticillium wilt.



Homestead : Jefferson : Kokomo : Manalucie : Rutgers : Sioux : Urbana : Valiant

**ACE.** A multi-purpose variety for green wrap and mature-pink shipping and for processing, developed primarily for the Far West, but used also in the Midwest. Vines determinate, large, productive. Fruits uniform green at mature-green stage, turning to scarlet; of medium firmness, with thick walls and excellent interior color.

**HOMESTEAD 24.** Uniform ASGROW selection from original Homestead, adapted from Florida to California and north to New England. Well suited for green wrap and pink shipping and local market. Plants determinate, large, with heavy foliage cover, setting well at high temperatures. Fruits of Rutgers type, smooth, meaty, firm.

**JEFFERSON.** A wilt-resistant ASGROW introduction. Plants heavy and vigorous setting better at high temperatures than Rutgers. Fruits globe-shaped, slightly smaller than Rutgers, with good color inside and out; thick-walled, with small core; relatively free from cracking. Well suited for pink-stage harvest for distant shipping.





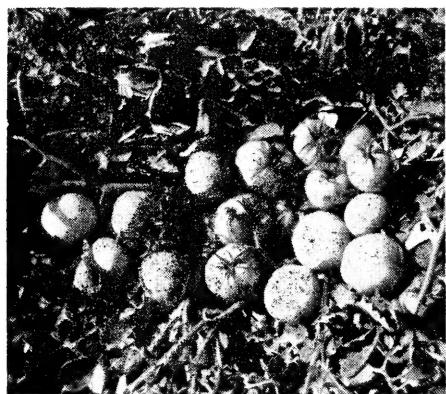
**MANALUCIE.** A relatively late-maturing variety, particularly well suited for mature-pink shipping. Plants large, indeterminate, with good foliage cover; resistant to fusarium wilt, gray leaf spot and leaf mold. Fruits medium large, globe-shaped, firm when ripe, but difficult to judge for maturity at green-wrap stage.



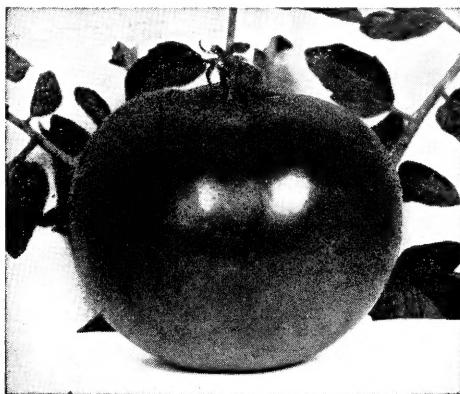
**PEARSON S.** The leading late crop variety for green-wrap shipping in California. Plants large, compact, bearing exceptionally heavy crops of well protected, medium-globe shaped fruits during a short harvest period. Merits trial for fall harvest in other long-season areas.



**PEARSON VF 6.** Verticillium and fusarium wilt-resistant. Recently introduced by the Davis, Calif. A.E.S. and the U.S.D.A. Generally similar to Improved Pearson, but slightly earlier in maturity and producing somewhat deeper fruits. Suited primarily for fresh market use, either green-wrap or mature-pink, but acceptable for processing.



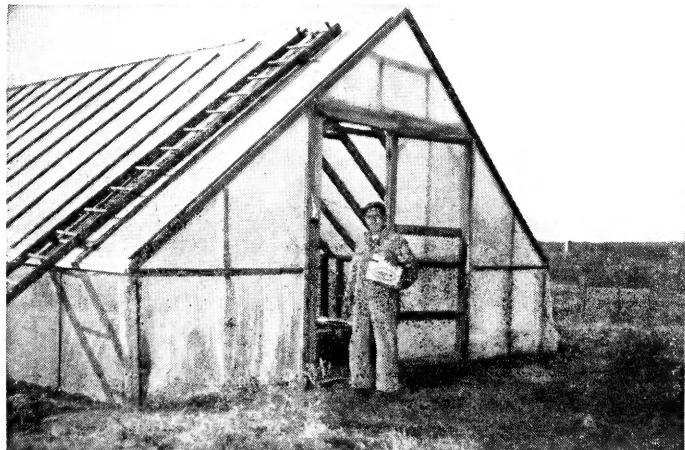
**PEARSON VF 11.** Companion variety to Pearson VF 6, similarly resistant but somewhat later in maturity, producing larger, more flattened fruits, with better interior color and solidity. Suited primarily for processing, but acceptable also for shipping, either green-wrap or mature-pink.



**RUTGERS.** An excellent, all-purpose variety, widely adapted and still the standard of comparison among mid-season varieties in most areas. The ASGROW strain is notably deep-fruited and widely recognized for its uniformity and high yield of U.S. No. 1 fruits.



**RED TOP.** Distinctive Italian Pear type for processing. Plants determinate, very compact, with many branches, producing heavy yields of well protected fruits, borne in clusters and relatively concentrated in maturity, holding well on vines. Fruits thick-walled, relatively dry.

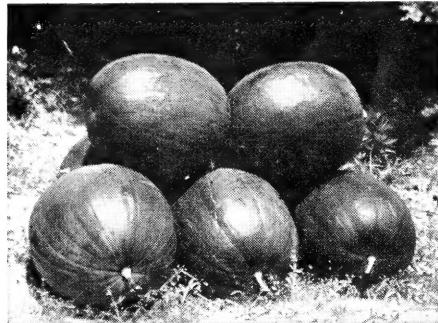


*Whether started in a New England greenhouse or direct-seeded in a California field, ASGROW VIGORPAK tomato seed has consistently demonstrated rapid, uniform emergence, strong seedling vigor.*

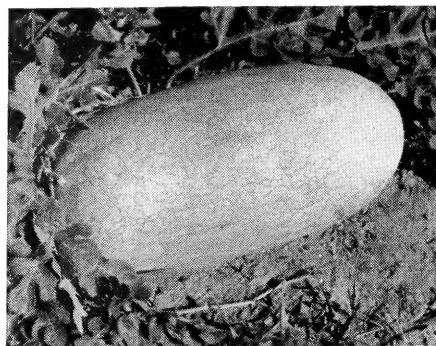
# WATERMELON

Variety	Days	Weight (pounds)	Shape	Rind	Flesh	Remarks
Blackstone†	95	35	near-round	dark green; tough	bright red; crisp; sweet	See below.
Blue Ribbon Striped Klondike*	95	20	oblong	light green, dark stripes; thin	deep red, sweet, crisp	For Far West markets.
Charleston Gray*†	85	18	oblong	light, with green veins; tough	bright red; high quality	See below.
Congo†	90	30	semi-long	med. green, dark stripes; tough	bright red; firm, sweet	See below.
Dark Green Klondike	95	25	oblong	dark green; thin	deep red; crisp	Far West; high quality.
Florida Giant (Black Diamond)	90	40	near-round	deep green; tough	red; firm, coarse	Standard shipper.
Hope Diamond*†	90	35	near-round	dark green; tough	bright red; crisp; sweet	See below.
Improved Peacock	95	25	oblong	dark green; med. tough	orange-red; firm, sweet	See below.
Garrison	85	35	long	light, heavy stripes; thin	bright red; sweet	Local Southern market.
Garrisonian†	85	35	long	light, heavy stripes; tough	bright red; sweet	For shipping.
New Hampshire Midget	70	5	oval-round	med. green, striped; thin	strawberry; good flavor	See below.
Sugar Baby	75	8	round	very dark green; tough	medium red; fine; sweet	See below.
Super Black Diamond	90	40	near-round	very dark green; tough	red; firm, sweet	Florida Giant type.
Tom Watson	95	35	long	dark green; tough	deep red; coarse	A standard shipper.

† Anthracnose-resistant. \* Wilt-resistant.



**BLACKSTONE.** A new anthracnose-resistant variety for shipping. Of Florida Giant type, but earlier and of better flesh quality and higher sugar content. Fruits large with dark green rind and yellowish ground spot. Flesh bright red, crisp, sweet.



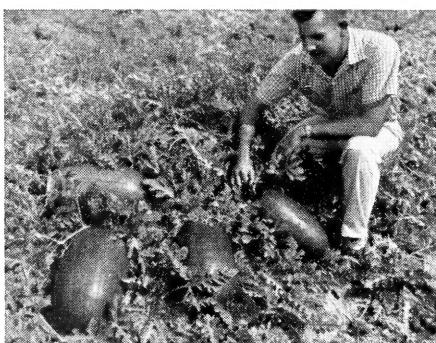
**CHARLESTON GRAY.** Anthracnose and fusarium wilt resistant. Rapidly becoming the most widely used variety east of the Rockies. Fruits large, oblong. Rind very pale green with darker green veins, sunburn resistant, medium thick, hard, tough. Flesh of excellent color and eating quality.



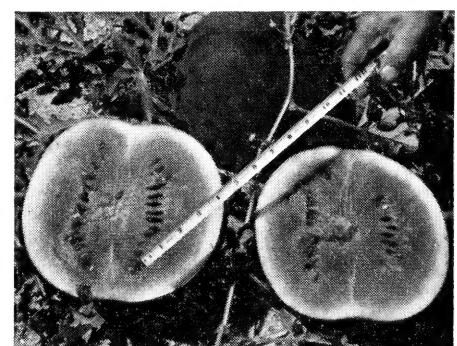
**CONGO.** Resistant, though not immune, to anthracnose. Fruits medium large, semi-long, dark green with darker stripes; of good quality. Rapidly becoming the leading variety in the Southeast for Northern markets.



**HOPE DIAMOND.** Developed at the Arkansas A.E.S. as a fusarium- and anthracnose-resistant variety of Black Diamond, or Florida Giant type. The fruits average slightly smaller, with brighter red flesh and sweeter flavor, from white heart and hollow heart.



**IMPROVED PEACOCK.** A standard variety used for shipping in Arizona and California. Fruits medium large, oblong. Rind very dark green, slightly ridged, thick, medium tough. Flesh orange-red, firm, sweet.



**SUGAR BABY.** A distinctive small-sized variety of good quality, suited both for bulk shipping and local market. Fruits round, about 8" dia. Rind very dark green with indistinct, darker stripes; thin, hard, tough. Flesh not excessively seedy. Seeds very small.

## PLANTING INFORMATION FOR VEGETABLE CROPS

These figures are approximate and will be affected by: soil, climate, moisture, cultural practices, differences in varieties within species, etc.

Species	Seeds per oz.	Seed requirements			Plant spacing		Seed planting depth (inches)	
		Oz. per 100 ft. of row	Lb. per acre		Between rows (feet)	In rows (inches)		
			Direct-seeded	Transplanted				
Asparagus .....	1,500	1	6-1b.	1-lb.	3-4	24	1	
Beans, snap bush ..	60-90	8	50-70		2-3	2-3	1½	
snap pole ..	70-120	6	30-40		3-4	6-8	1½	
Lima bush ..	20-70	8	35-60		2-3	3-4	1½	
Lima pole ..	20-65	6	25-40		3-4	6-8	1½	
Beet; Swiss Chard ..	1,500	½	8-10		1½-2	3-4	½	
Broccoli .....	9,000	½	2-3	¼	2-3	12-18	¼	
Brussels Sprouts ..	8,000	½	2-3	¼	2-3	18-24	¼	
Cabbage .....	8,500	½	2-3	¼	2-3	12-18	¼	
Chinese Cabbage ..	7,000	½	2-3		2-3	12	¼	
Carrot .....	25,000	½	2-3		1½-2	1	¼	
Cauliflower .....	10,000	½	2-3	¼	2-3	18-24	¼	
Celery; Celeriac ..	50,000	½	1-2	¼	2-3	4-6	½	
Chicory .....	17,000	½	2-3		1½-2	10	¼	
Collard .....	8,000	½	2-3	¼	2-3	8-12	¼	
Corn .....	100-200	2	10-12		3	6-12	1½	
Cucumber .....	1,000	½	1½-2		4-6	8-12	¾	
Egg Plant .....	6,000	½	2	¼	3	30	½	
Endive .....	15,000	½	2-3		1½-2	9-12	¼	
Kale .....	7,500	½	2-3		2-3	18-24	¼	
Kohl Rabi .....	8,000	½	2-3		1½-2	8	¼	
Leek .....	10,000	¼	2		2-2½	9-12	½	
Lettuce .....	20,000	½	1½-3	¼	1½-2	12	¼	
Melon .....	1,200	½	2-3		5-7	12	1	
Mustard .....	15,000	½	1-2		1½-2	4-6	¼	
Okra .....	500	¼	5-6		3	15	1	
Onion .....	8,000	¼	3-4		1½-2	2-4	½	
Parsley .....	15,000	¼	4		1½-2	1-2	¼	
Parsnip .....	6,000	¼	4-5		1½-2	4	½	
Peas .....	90-150	8-12	100-300		2½ or Br.	1-2	1	
Pepper .....	4,000	½	3-5	¼	2½-3	12-18	¼	
Pumpkin .....	100	½	1-2		8	18-24	1	
Radish .....	3,500	½	10-15		1	1-2	½	
Rutabaga .....	8,000	½	1-2		1½-2	4-6	¼	
Spinach .....	2,500	¼	10-15		1-2	2-3	¾	
Squash, bush .....	300	½	3-4		4	18-24	1	
Squash, vining .....	100-300	½	2-3		6	18-24	1	
Tomato .....	10,000	½	1	¼	3-6	24-48	¼	
Turnip .....	9,000	½	2-3		1½-2	2-4	¼	
Watermelon .....	300	½	3-4		6-8	24-36	1	

### PLANT POPULATION PER ACRE AT DIFFERENT SPACINGS

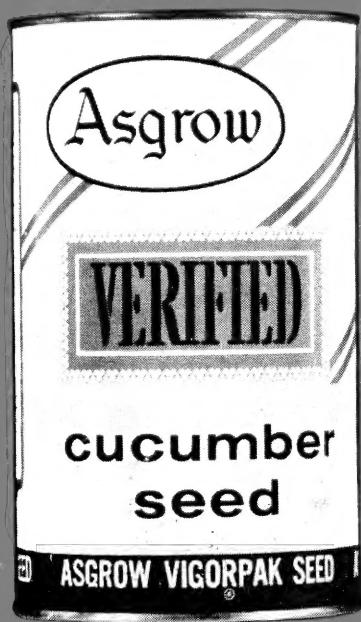
Inches apart	Number of plants	Inches apart	Number of plants	Inches apart	Number of plants
12 x 3	174,000	30 x 4	52,300	48 x 24	5,450
12 x 12	43,560	30 x 6	35,000	48 x 36	3,500
18 x 3	116,000	30 x 12	17,500	60 x 36	2,900
18 x 12	29,000	36 x 3	58,000	60 x 48	2,000
24 x 6	43,560	36 x 12	14,500	60 x 60	1,700
24 x 12	21,780	36 x 18	9,680	72 x 36	2,420
24 x 18	15,500	36 x 24	7,260	72 x 48	1,815
24 x 24	11,000	36 x 36	4,840	72 x 60	1,450

### LINEAL FEET OF ROW PER ACRE AT VARIED SPACINGS

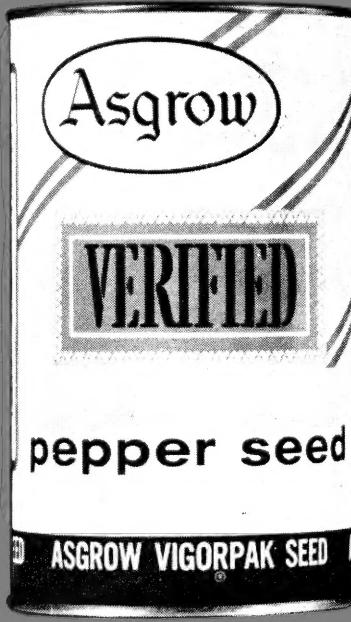
Distance between rows	Feet of row	Distance between rows	Feet of row
18 in.	29,400	36 in.	14,520
24 in.	21,780	42 in.	12,446
30 in.	17,424	48 in.	10,890

# IF YOU GROW

cucumbers



peppers



watermelons



*you should be using . . .*

# ASGROW VERIFIED SEED

#### ASGROW VERIFIED SEEDS

ASSOCIATED SEED GROWERS, INC. affirms that the cucumber seeds in this package, if unopened, (1) were grown in California, in an area free from anthracnose and angular leaf spot, (2) were grown from seed stock tested and approved by the Asgrow Breeding and Research Department; (3) are the product of a crop that was inspected by trained Asgrow fieldmen and found to be free of the above diseases and to meet the standards for trueness to varietal type established by the Asgrow Quality Control Department.

Associated Seed Growers, Inc.  
New Haven, Connecticut

#### Look for this label

**It means better seed and better crops for you**

**It's your guarantee**

1. That the seed has been produced under Asgrow supervision, from pedigreed Asgrow parent seed stocks. This gives you added assurance of genetic uniformity — more marketable fruits — in your crop.
2. That the seed is produced in areas where certain specified seedborne diseases are not known to exist. This gives you clean seed without risking injury from disinfectant treatment — greater assurance of a crop.

#### For your added protection

Asgrow Verified Seed comes in VIGORPAK, the exclusive ASGROW process, which gives you greater assurance of uniform, rapid germination, better seedling vigor, even under adverse conditions, than you have with just ordinary seed.